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2007 SAMSUNG VSS GENERAL CATALOGUE Vol. 4



Digital Security
Solutions



Vol. 4

SAMSUNG Video Security Systems 2007 GENERAL CATALOGUE



CAMERA

Natural image, clear definition

Everything made by Samsung is distinct and superior.

-Samsung Offers the Best Selection in High Security Systems-

Samsung provides not only tremendous variety in product selection, but also products that are both cost competitive and of the finest quality.

- Utilization of Samsung's state-of-the-art semiconductor technologies and its accumulated network and vision (video) technology.
- Various assortment of DVRs, Cameras, Monitors, System Controllers, Network Security Systems, Time Lapse VCRs, etc.
- Samsung will contribute to the expansion of the security business by developing new products for a safety system aimed at the future digital era.

Samsung will continue to maintain its firm position as a world top manufacturer.

CAMERA 3p

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Comparison Chart by Model

Box Type & Zoom Lens Camera

SBC-330A(P) / 300AP
SBC-331A(P) / 301AP
SCC-100BP / SCC-130B(P)
SCC-101BP / SCC-131B(P)
SCC-B1391(P) / B1091P
SCC-B2303(P) / SCC-B2003P
SCC-B2305(P) / SCC-B2005P
SCC-B2307P / SCC-B2007P
SCC-B2300 / SCC-B2391(P)
SCC-C4201(P) / C4203(P)
SCC-C4301(P) / SCC-C4303A(P)
SCC-C4205(P) / C4305(P)C
SCC-C4207(P) / SCC-C4307(P)

Dome Camera

SCC-B5203(P)
SCC-B5300(G)(P)/B5301(G)(P)
B5303(G)(P)/B5305(G)(P)
SCC-B5351(G)(P)
SCC-931T(P)
SCC-C9302(P)

SmartDome Camera & Accessory

SCC-641(P)/SCC-643A(P)
SCC-C6403(P)
SCC-C6407(P)
SSC-1000(P)
SSC-2000(P)
SHG-120
SHG-220
SADT-101WM
SADT-100CM
SBR-100DCM
SADT-110CM
SADT-100WM
SADT-100PM
Installation



MONITOR

Comparison Chart by Model

Models	SMT-171P/190P	SMC-150FP	SMC-152FP	SMC-210FP	SMC-212FP/ SMC-211FP
Spec					
System	PAL	PAL	PAL	PAL	PAL
Picture tube	17"/19" TFT LCD	15"CRT 0.66mm Stripe Pitch	15"CRT 0.66mm Stripe Pitch	21"CRT 0.74mm Stripe Pitch	21"CRT 0.74mm Stripe Pitch
Resolution	1280 x 1024 @ 60Hz	400lines	400lines	500lines	500lines
Horizontal	31KHz ~ 82KHz (SMT-171(P))	16.25KHz ± 500Hz	16.25KHz ± 500Hz	16.25KHz ± 500Hz	16.25KHz ± 500Hz
Frequency Stability	31KHz ~ 80KHz (SMT-190(P))				
Vertical	50Hz ~ 77Hz (SMT-171(P))	50Hz ± 4Hz	50Hz ± 4Hz	50Hz ± 4Hz	50Hz ± 4Hz
Frequency Stability	50Hz ~ 75Hz (SMT-190(P))				
Audio Output		1.5W	1.5W	1.5W	1.5W
S-VHS Input	o	x	x	x	212FP: x 211FP: o
Voltage	DC 12V	AC90~260V 50/60Hz	AC90~260V 50/60Hz	AC90~260V 50/60Hz	AC90~260V 50/60Hz
Power Consumption	Max. 36W (SMT-171(P)), Max. 42W (SMT-190(P))	63W	63W	70W	70W
Weight	596kg (SMT-171(P)), 661kg (SMT-190(P))	13.0kg	13.0kg	25.0kg	25.0kg
Case	ABS	Metal	Metal	Metal	Metal
Dimensions(WxHxD)	382.4 x 200 x 390.5 mm (SMT-171(P)) 430 x 200 x 428 mm (SMT-190(P))	365 x 341 x 391 mm	365 x 341 x 391 mm	490 x 444 x 482 mm	490 x 444 x 482 mm

Models	SMT-171/190	SMC-150F	SMC-152F	SMC-211F
Spec				
System	NTSC	NTSC	NTSC	NTSC
Picture tube	17"/19" TFT LCD	15"CRT 0.66mm Stripe Pitch	15"CRT 0.66mm Stripe Pitch	21"CRT 0.74mm Stripe Pitch
Resolution	1280 x 1024 @ 60Hz	400lines	400lines	500lines
Horizontal	31KHz ~ 82KHz (SMT-171(P))	15.75KHz ± 500Hz	15.75KHz ± 500Hz	15.75KHz ± 500Hz
Frequency Stability	31KHz ~ 80KHz (SMT-190(P))			
Vertical	50Hz ~ 77Hz (SMT-171(P))	60Hz ± 4Hz	60Hz ± 4Hz	60Hz ± 4Hz
Frequency Stability	50Hz ~ 75Hz (SMT-190(P))			
Audio Output		1.5W	1.5W	1.5W
S-VHS Input	o	x	x	o
Voltage	DC 12V	AC90~260V 50/60Hz	AC90~260V 50/60Hz	AC90~260V 50/60Hz
Power Consumption	Max. 36W (SMT-171(P)), Max. 42W (SMT-190(P))	63W	63W	70W
Weight	596kg (SMT-171(P)), 661kg (SMT-190(P))	13.0kg	13.0kg	25.0kg
Case	ABS	Metal	Metal	Metal
Dimensions(WxHxD)	382.4 x 200 x 390.5 mm (SMT-171(P)) 430 x 200 x 428 mm (SMT-190(P))	365 x 341 x 391 mm	365 x 341 x 391 mm	490 x 444 x 482 mm



SMT-171(P) / SMT-190(P)

Professional 17"/19" Tempered Glass TFT-LCD Monitor



Summary

SMT-171(P)/190(P) are 17"/19" TFT LCD monitors for surveillance use with two BNC inputs/outputs, one S-Video input/output and one VGA input. Their superior 3D Comb Filter, CTI and De-Interlace functions help producing sharper images and a tempered glass attached to the front panel secures better strength. System ID function enables users to control several monitors with one remote controller.

SMT-171(P)/190(P) use Wise-View TFT-LCD™, panel manufactured by SAMSUNG and support VESA Standard wall mount system. These products are compatible with various types of power sources and can be used in both NTSC and PAL environments.



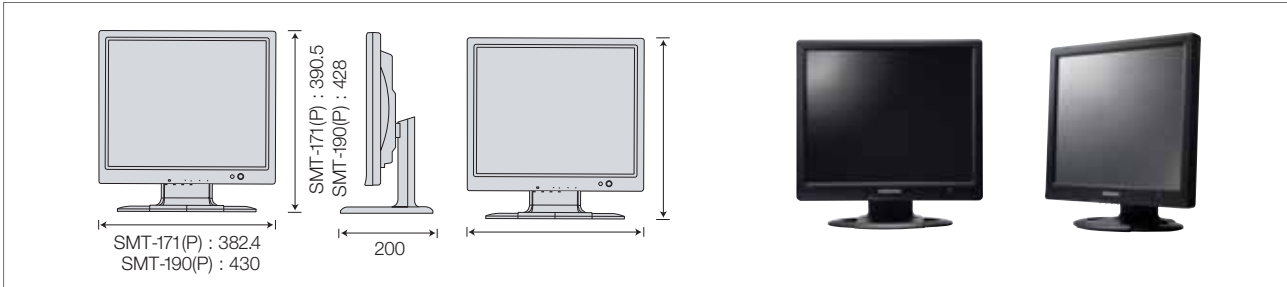
SMT-171(P) / SMT-190(P)

Professional 17"/19" Tempered Glass TFT-LCD Monitor

Features

- Displays a full, flat 17", 19" diagonal image
- High resolution (active native:1280 x 1024 @ 60Hz)
- High Contrast Ratio (700:1)
- High Brightness (300cd/m2)
- Wide Viewing Angle (H:150°/V:135°)
- Screen aspect ratio : 5:4
- Pixel Pitch : 17" : 0.264 x 0.264(mm), 19" : 0.294 x 0.294(mm)
- Output Color : 17" : 16.2 million, 19" : 16.7 million (256 RGB Level)
- Power Consumption : 17" : 36W, 19" : 42W
- Advanced Interface: 2 CVBS (2 LOOP OUT), SVHS (1 LOOP OUT), analog VGA input
- VESA wall mount
- Tempered glass

Dimensions (unit : mm)



Specifications

		SMT-171(P)	SMT-190(P)
Video	Composite	2Ch input 10Vp-p, 75Ω terminated, loop-through out	
	S-Video	1Ch input(Y/C), loop-through out	
	VGA	1Ch input	
Resolution		1280 x 1024 @ 60Hz	
Frequency	Horizontal(KHz)	31KHz ~ 82KHz	31KHz ~ 80KHz
	Vertical(Hz)	50Hz ~ 77Hz	50Hz ~ 75Hz
VGA Mode		720x480@60Hz,720x576@50Hz,800x600@60/75Hz 1024x768@60/75Hz,1280x1024@60/75Hz	
Power Consumption		Max. 36W	Max. 42W
Power Supply		DC12V/4A	
Environmental Considerations	Operation Temperature	50°F ~ 104°F(10°C ~ 40°C)	
	Operation Humidity	10%~80%,Non-condensing	
	Storage Temperature	-4°F ~ 113°F(-20°C ~ 45°C)	
	Storage Humidity	5%~95%,Non-condensing	
	Size	17" Diagonal AM-TFT	
LCD Panel Spec	Active Display Area	33792 x 270336 mm	37632 x 301056 mm
	Pixel Pitch	0.264 mm(H) x 0.264 mm(V)	0.294 mm(H) x 0.294 mm(V)
	Brightness	300cd/m2	
	Contrast Ratio	700:1	
	Response Time	8ms	
	Viewing Angle(L/R/T/B)	75/75/75/60	
	Dimensions(WxDxH)		
Dimensions(WxDxH)	Net	382.4 x 200 x 390.5 mm	430 x 200 x 428 mm
	Net Weight	5.96Kg	6.61Kg
	Packing	436 x 225 x 476 mm	490 x 225 x 506 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SMT-150F(P) / SMT-152F(P)

15" Flat Color Monitor



Summary

SMC-150F(P)/152F(P) is a 15" color monitor housed in a metal case featuring looping video and audio circuits. This color monitor features a metal case, sturdy construction and is designed and built as a security monitor. With 400 lines of resolution, this monitor delivers high quality video images in a compact 15"Flat format. SMC-150F(P)/152F(P) is equipped with a worldwide compatible power supply (both NTSC and PAL). Automatic 75 Ohms terminations and on screen display-programming make this monitor an ideal choice for system integration and other viewing environments. SMC monitor series are world renowned for the high quality video image.





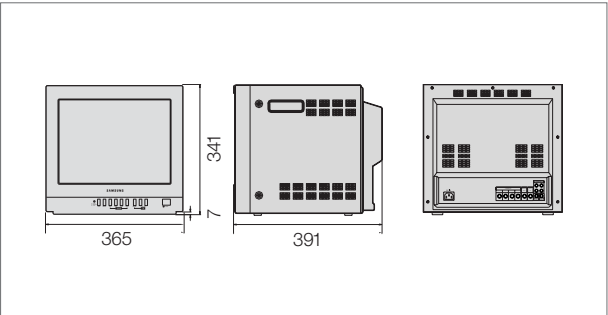
SMT-150F(P) / SMT-152F(P)

15" Flat Color Monitor

Features

- 15" Flat CRT
- 400 TV lines of horizontal resolution
- NTSC/PAL Multiple system
- Selectable looping video inputs(SMC-150F)
- Automatic 75 ohm termination
- Worldwide multiple system (NTSC/PAL)
- Auto sequential switching function (SMC-152F)
- Auto skip and time adjustment (SMC-152F)
- Maximum 1.5W speaker output
- Metal cabinet

Dimensions (unit : mm)



Rear Panel



Specifications

		SMC-150F(P)	SMC-152F(P)
Picture Tube		38cm(15"), 0.66mm Stripe type, In line gun, 90°Deflection	38cm(15"), 0.60mm Stripe type, In line gun, 90°Deflection
Video	Input	2 BNC, 1 Vp-p	4 BNC, 1 Vp-p
	Output	2 BNC, 75 ohm	1 BNC, 75 ohm
Audio	Input	2 RCA, Line level 500mV, 47Kohm(Hi-Impedance)	4 RCA, Line level 500mV, 47Kohm(Hi-Impedance)
	Output	2 RCA	1 RCA
Control front		Volume Up/Down, Contrast, Bright, Color, Tint, Sharp, Input select	Volume Up/Down, Contrast, Bright, Color, Tint, Sharp, Input select
Connection rear		Video A, B(2CH Composite), VCR(1CH)	Camera 1,2,3,4 (4CH Composite), VCR(1CH)
		Audio A, B(2CH), VCR(1CH)	Audio 1,2,3,4 (4CH), VCR(1CH)
Stabilization	Horizontal	Pull in range ±500Hz	Pull in range ±500Hz
		Holding range ±600Hz	Holding range ±600Hz
	Vertical	Pull in range ±4Hz	Pull in range ±4Hz
		Holding range ±4Hz	Holding range ±4Hz
	Sub carrier	Pull in range ±400Hz	Pull in range ±400Hz
		Holding range ±500Hz	Holding range ±500Hz
Convergence		0.4mm Max (Center)	0.4mm Max (Center)
Operating Temperature		-10 ~ +50°C	-10 ~ +50°C
Operating Humidity		10% ~90%	10% ~90%
Power Source		120VAC, 60Hz 230VAC, 50Hz (Rating voltage)	120VAC, 60Hz 230VAC, 50Hz (Rating voltage)
		90 TO 260VAC(Voltage range)	90 TO 260VAC(Voltage range)
Power Consumption		Approx. 63W	Approx. 63W
Dimension(W x H x D)		365 x 341 x 391(mm)	365 x 341 x 391(mm)
Weight		Approx. 13Kg(with packing)	Approx. 13Kg(with packing)
Packing		470 x 480 x 445	470 x 480 x 445

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SMC-210FP / SMC-211F(P) / SMC-212FP

21" Flat Screen Color Monitor



Summary

SMC-210FP/211F(P)/212FP is a 21" color monitor housed in a metal case featuring looping video and audio circuits. This color monitor features a metal case, sturdy construction and was designed and built as a security monitor. With 500 lines of resolution this monitor delivers high quality video images in a compact 21"Flat format. SMC-210FP/211F(P)/212FP is equipped with a worldwide compatible power supply allowing it to function in both NTSC and PAL environments. Automatic 75 Ohms terminations and on screen display-programming make this monitor an ideal choice for system integration and other viewing environments. SMC monitor series are world renowned for high quality video imaging.





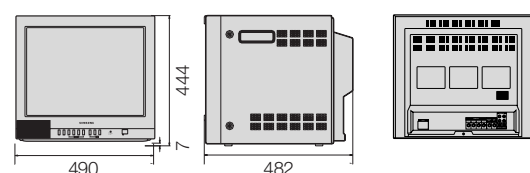
SMC-210FP / SMC-211F(P) / SMC-212FP

21" Flat Screen Color Monitor

Features

- 21" Flat CRT
- 500 TV lines of horizontal resolution
- NTSC/PAL multiple system
- Selectable looping video inputs (2 BNC, 1 Y/C)
- Automatic 75 ohm termination
- Worldwide multiple system
- Auto sequential switching function (SMC-212F)
- Auto skip and time adjustment (SMC-212F)
- Built-in digital comb filter, LTI, CTI
- Maximum 1.5W speaker output
- Metal cabinet

Dimensions (unit : mm)



Rear Panel



SMC-210FP



SMC-212FP
SMC-211F(P)

Specifications

		SMC-210F(P) / 211F(P)	SMC-212F(P)
Picture Tube		53cm(21"), 0.74mm Stripe type, In line gun, 90°Deflection	53cm(21"), 0.74mm Stripe type, In line gun, 90°Deflection
Video	Input	2 BNC, 1 Vp-p	4 BNC, 1 Vp-p
	Output	2 BNC, 75 ohm	1 BNC, 75 ohm
Y/C in		S-VHS jack, 1Vp-p(Y), 0.286Vp-p(C), 1CH (SMC-211F)	S-VHS jack, 1Vp-p(Y), 0.286Vp-p(C), 1CH
Audio	Input	2 RCA, Line level 500mV, 47Kohm(Hi-Impedance)	4 RCA, Line level 500mV, 47Kohm(Hi-Impedance)
	Output	2 RCA	1 RCA
Control front		Volume Up/Down, Contrast, Bright, Color, Tint, Sharp, Input select	Volume Up/Down, Auto, Contrast, Bright, Color, Tint, Sharp, Input select
Connection rear		Video A, B(2CH Composite), VCR(1CH)	Camera 1,2,3,4 (4CH Composite), VCR(1CH)
		Audio A, B, C(3CH)	Audio A, B, C(3CH)
Stabilization	Horizontal	Pull in range ±500Hz	Pull in range ±500Hz
		Holding range ±600Hz	Holding range ±600Hz
	Vertical	Pull in range ±4Hz	Pull in range ±4Hz
		Holding range ±4Hz	Holding range ±4Hz
	Sub carrier	Pull in range ±400Hz	Pull in range ±400Hz
		Holding range ±500Hz	Holding range ±500Hz
Convergence		0.5mm Max (Center)	0.5mm Max (Center)
Operating Temperature		-10 ~ +50°C	-10 ~ +50°C
Operating Humidity		10% ~90%	10% ~90%
Power Source		120VAC, 60Hz 230VAC, 50Hz (Rating voltage)	120VAC, 60Hz 230VAC, 50Hz (Rating voltage)
		90 TO 260VAC(Voltage range)	90 TO 260VAC(Voltage range)
Power Consumption		Approx. 70W	Approx. 70W
Dimension(W x H x D)		490 x 444 x 482 (mm)	490 x 444 x 482 (mm)
Weight		Approx. 25Kg(with packing)	Approx. 25Kg(with packing)
Packing		620 x 585 x 570	620 x 585 x 570

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model

DVR

Natural image, clear definition



Comparison
Chart by Model

New
Standalone DVR

SHR-2040(P)
SHR-2042(P)
SHR-2080(P)
SHR-2082(P)
SHR-2160(P)
SHR-2162(P)
SHR-4081(P)
SHR-4160P







PC based DVR





SPR-7116(P)
SPR-7416(P)

CAMERA

Natural image, clear definition

Box Type Camera





Models	SBC-330A(P) / 300AP	SBC-331A(P) / 301AP	SCC-130B(P) / 100BP	SCC-130B(P) / 100BP	SCC-B1391(P) / B1091P	SCC-B2300
Spec						
CCD	1/3 inch B/W	1/3 inch B/W	1/3 inch Super-HAD	1/3 inch Super-HAD	1/3 inch Super-HAD	1/3 inch Super-HAD
Picture Elements	EIA:270K Pixels / CCIR:320K Pixels	EIA:410K Pixels / CCIR:470K Pixels	NTSC:270K Pixels / PAL:320K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:270K Pixels / PAL:320K Pixels
Resolution(H)	420 TV lines	570 TV lines	330 TV lines	520 TV lines	540 TV lines	00(Color) / 420(B/W) TV lines
Min. Illumination	0.05lux	0.05lux	0.15lux	0.3lux	0.3lux	0.2(Color) / 0.03(B/W)lux
Lens						
Sync.	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock

Models	SCC-B2391(P) / B2091P	SCC-B2303(P) / B2003P	SCC-B2307P / B2007P	SCC-B2305(P) / B2005P
Spec				
CCD	1/3 inch Super-HAD	1/3 inch Super-HAD	1/3 inch EX-View	1/3 inch Super-HAD PS
Picture Elements	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	PAL : 470K Pixels	NTSC:410K Pixels / PAL:470K Pixels
Resolution(H)	40(Color) / 570(B/W) TV lines	00(Color) / 530(B/W) TV lines	00(Color) / 530(B/W) TV lines	00(Color) / 530(B/W) TV lines
Min. Illumination	0.3(Color) / 0.06(B/W)lux	0.002(Color) / 0.004(B/W)lux	0.001(Color) / 0.002(B/W)lux	0.002(Color) / 0.004(B/W)lux
Lens				
Sync.	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock



Zoom Lens Camera

Models	SCC-C4201(P) / C4301P	SCC-C4203A(P) / C4303AP	SCC-C4205(P)/C4305P	SCC-C4207(P)/C4307P
Spec				
CCD	1/4 inch Super-HAD	1/4 inch Super-HAD	1/4 inch EX-View PS	1/4 inch EX-View PS
Picture Elements	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels
Resolution(H)	480 TV lines	480 TV lines	480 TV lines	480 TV lines
Min. Illumination	0.01lux	0.01(Color) / 0.003(B/W) Lux	0.005(Color) / 0.0002(B/W) Lux	0.002(Color) / 0.0002(B/W) Lux
Lens	x22 Zoom	x22 DayNight Zoom	x22 DayNight Zoom	x32 DayNight Zoom
Sync.	Internal/Line Lock(C4301P Only)	Internal/Line Lock(C4303AP Only)	Internal/Line Lock(C4305P Only)	Internal/Line Lock(C4307P Only)







Fixed Dome Camera

Models	SCC-B5300(G)(P)	SCC-B5301(G)(P) ^① / B5303(G)(P) ^② / B5305(G)(P) ^③	SCC-B5203(S)(P)	SCC-B5351(G)(P)
Spec				
CCD	1/3 inch Super-HAD	1/4 inch Super-HAD	1/4 inch Super-HAD	1/4 inch Super-HAD
Picture Elements	NTSC:270K Pixels / PAL:320K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels
Resolution(H)	330 TV lines	480 TV lines	480 TV lines	480 TV lines
Min. Illumination	0.3lux	0.5lux	0.3lux	0.3lux
Lens	f=3.8mm	f=3.8mm ^① / f=2.9mm ^② / f=8.0mm ^③	f=3.0mm	f=3.4~9mm Auto Iris
Sync.	Internal/Line Lock	Internal/Line Lock	Internal	Internal/Line Lock

Anti-Vandal Camera

Models	SCC-931T(P)	SCC-C9302(F)(P)
Spec		
CCD	1/4 inch Super-HAD	1/4 inch Ex-View PS
Picture Elements	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels
Resolution(H)	480 TV lines	480 TV lines
Min. Illumination	0.01lux	0.002(Color) / 0.0002(B/W) Lux
Lens	x12 Zoom	x12 DayNight Zoom
Sync.	Internal/Line Lock	Internal/Line Lock

SmartDome Camera

Models	SCC-641(P)	SCC-643A(P)	SCC-C6403(P)	SCC-6405(P)	SCC-C6407(P)	SCC-C6475(P)
Spec						
CCD	1/4 inch Super-HAD	1/4 inch Super-HAD	1/4 inch Super-HAD	1/4 inch Ex-View PS	1/4 inch Ex-View PS	1/4 inch Ex-View PS
Picture Elements	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels	NTSC:410K Pixels / PAL:470K Pixels
Resolution(H)	480 TV lines	480 TV lines	480 TV lines	480 TV lines	480 TV lines	480 TV lines
Min. Illumination	0.01lux	0.01(Color) / 0.003(B/W) Lux	0.005(Color) / 0.0005(B/W) Lux	0.005(Color) / 0.0002(B/W) Lux	0.002(Color) / 0.0002(B/W) Lux	0.005(Color) / 0.0002(B/W) Lux
Lens	x22 Zoom	x22 DayNight Zoom	x32 DayNight Zoom	x22 DayNight Zoom	x22 DayNight Zoom	x22 DayNight Zoom
Sync.	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock



SCC-130B / SCC-130BP / SCC-100BP

1/3" Standard, Color Digital Camera



Summary

This color camera is capable of superb observation, thanks to its state-of-the-art implementation of 1/3" CCD (270,000 pixels for NTSC, 320,000 pixels for PAL) with economical price.

Through the use of SONY CCD and the outstanding digital signal processor, this camera provides extremely sharp image quality. By using backlight compensation function, it is able to give brighter and sharper images of an object darkened by background lighting or sunlight. Particularly, it applies the highly sensitive Super-HAD CCD, which allows optimum observation of parking lots or building interiors that are dimly lit at best.

Through the perfect Auto/Manual white balance function, the camera ensures accurate representation of colors under any environment. It has switches, with which it can selectively use the line-lock or flickerless function. By adopting the ELC function, it can use the manual Iris lens economically. Without ELC function, it can use the automatic lens of DC type or video selectively.

Its mechanism is designed to accommodate with any C/CS lens mount adaptor. The camera supports easy installation since it can be mounted either on the top or the bottom of the camera adaptor. In the case of SCC-100BP, since it is designed to make use of the AC230V power source, it can be employed by being directly plugged into the receptacle. In case of SCC-130B(P), both AC24V and DC12V (nonpolar) are available with the use of power adapter.



SCC-130B / SCC-130BP / SCC-100BP

1/3" Standard, Color Digital Camera



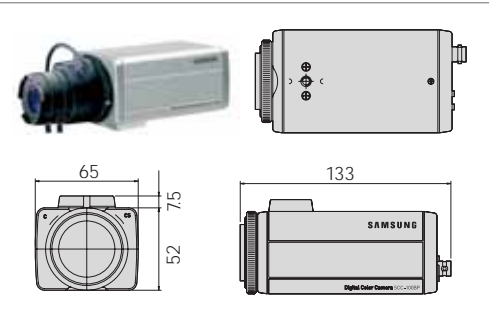
SCC-131B / SCC-131BP / SCC-101BP

1/3" High Resolution, Color Digital Camera

Features

- DSP (Digital Signal Processor)
- 1/3" 320,000 pixels, super HAD CCD (SCC-130B : 270,000 pixels)
- Horizontal resolution (330 TV lines)
- Back light compensation circuitry
- External synchronization with linelock
- Accepts 2 types of auto-Iris lenses (DC/Video)
- Accepts CS/C-mount without adaptor
- Power Input (100BP : AC230V / 130B(P) : AC24V/DC12V compatible)
- Built-in ground fault isolation transformer

Dimensions (unit : mm)



Rear Panel



Specifications

		SCC-130B	SCC-130BP	SCC-100BP
Camera Type	Color	Color		
Image	Device	Super-HAD CCD		
	Size	1/3 inch		
	Pixels - Total	537 x 597		537 x 597
	Pixels - Effective	500 x 582		500 x 582
Scanning	System	Interlace		
	Horizontal Frequency-Internal Mode	15,734 Hz		15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz		15,625 Hz
	Vertical Frequency-Internal Mode	59.94 Hz		50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz		50 Hz
Min. scene Illumination	Color	0.15 Lux		
Functions	BLC	On		
	AGC	On		
	ELC	Off/On(Max. 1/120Ksec)		
	Line Lock	Off/On		
	White Balance	ATW / AWC		
Resolution	Horizontal	330 TV Lines		
	Vertical	350 TV Lines		
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p		
S/N Ratio	S/N Ratio	50dB		
Lens	Lens Drive Type	AI(Video/DC)		
OSD	OSD	No		
Environmental	Operating Temperature	-10° C ~ +50° C		
Conditions	Humidity	Less than 90%		
Power	Power Requirement	AC24V(60Hz)±10%	AC24V(50Hz)±10%	AC220V~240V(50Hz)
	Power Consumption	3W		4W
	LED Indicator	Yes		
Physical	Dimensions (WxHxD)-Net	65 x 52 x 133 mm		
Specification	Weight-Net	450g		550g
	Loading Quantity(20/40ft)	10560 / 21,870		
	Packing	530 x 241 x 182 mm		

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

This color camera is capable of superb observation, thanks to its state-of-the-art implementation of 1/3" CCD (410,000 pixels for NTSC, 470,000 pixels for PAL) with economical price.

Through the use of SONY CCD and the outstanding digital signal processor, this camera provides extremely sharp image quality. By using backlight compensation function it is able to give brighter and sharper images of an object darkened by background lighting or sunlight. Particularly, it applies the highly sensitive Super-HAD CCD, which allows optimum observation of parking lots or building interiors that are dimly lit at best.

Through the perfect Auto/Manual white balance function, the camera ensures accurate representation of colors under any environment. It has switches, with which it can selectively use the line-lock or flickerless function. By adopting the ELC function, it can use the manual Iris lens economically. Without ELC function, it can use the automatic lens of DC type or video selectively.

Its mechanism is designed to accommodate with any C/CS lens mount adaptor. The camera supports easy installation since it can be mounted either on the top or the bottom of the camera adaptor. SCC-101BP, since it is designed to make the use of AC230V power source, can be employed by being directly plugged into the receptacle. In case of SCC-131B(P), both AC24V and DC12V (nonpolar) are available with the use of power adapter.





SCC-131B / SCC-131BP / SCC-101BP

1/3" High Resolution, Color Digital Camera



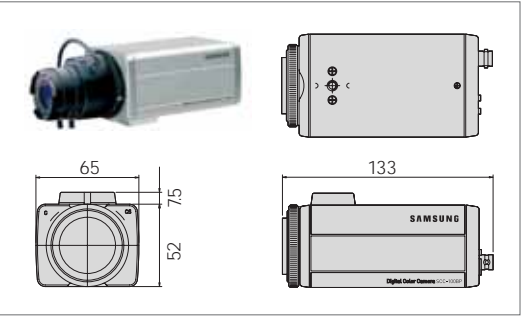
SCC-B1391 / SCC-B1391P / SCC-B1091P

1/3" 540 TV Lines, Color Digital Camera

Features

- DSP (Digital Signal Processor)
- 1/3" 470,000 pixels, super HAD CCD (SCC-131B : 410,000 pixels)
- Horizontal resolution (520 TV lines)
- Back light compensation circuitry
- External synchronization with line-lock
- Accepts 2 types of auto-iris lenses (DC/Video)
- Accepts CS/C-mount without adaptor
- Power input(101BP : AC230V / 131B(P) : AC24V/DC12V compatible)
- Built-in ground fault isolation transformer

Dimensions (unit : mm)



Rear Panel



Specifications

		SCC-131B	SCC-131BP	SCC-101BP
Camera Type	Color		Color	
Image	Device		Super-HAD CCD	
	Size		1/3 inch	
	Pixels - Total	811 x 508		795 x 596
	Pixels - Effective	768 x 494		752 x 582
Scanning	System		Interlace	
	Horizontal Frequency-Internal Mode	15,734 Hz		15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz		15,625 Hz
	Vertical Frequency-Internal Mode	59.94 Hz		50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz		50 Hz
Min. scene Illumination	Color		0.3 Lux	
Functions	BLC		On	
	AGC		On	
	ELC		Off/On(Max. 1/120Ksec)	
	Line Lock		Off/On	
	White Balance		ATW / AWC	
Resolution	Horizontal		520 TV Lines	
	Vertical		350 TV Lines	
Video Output	VBS 1.0Vp-p		VBS 1.0Vp-p	
S/N Ratio	S/N Ratio		50dB	
Lens	Lens Drive Type		AI(Video/DC)	
OSD	OSD		No	
Environmental	Operating Temperature		-10° C ~ +50° C	
Conditions	Humidity		Less than 90%	
Power	Power Requirement	AC24V(60Hz)±10%	AC24V(50Hz)±10%	AC220V~240V(50Hz)
	Power Consumption		3W	4W
	LED Indicator		Yes	
Physical	Dimensions (WxHxD)-Net		65 x 52 x 133 mm	
Specification	Weight-Net		450g	550g
	Loading Quantity(20/40ft)		10/560 / 21870	
	Packing		530 x 241 x 182 mm	

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

As color cameras that adopt the 1/3" state-of-the-art CCD (410,000 pixels for NTSC, 470,000 pixels for PAL), this product realize the high resolving power of horizontal resolution (540 TV lines) through the use of Hi-Tech Digital Signal Process. Through the use of SONY Super-HAD CCD and the outstanding digital signal process, these cameras provide extremely sharp image quality. By using BLC (Back Light Compensation) function, they are able to give brighter and sharper images of an object darkened by back-ground lighting or sunlight.

Also, these products have excellent CCD sensitivity, which especially allows optimum observation of parking lots or building interiors even under the low light conditions. Through the perfect Auto/Manual white balance function, these cameras ensure accurate representation of colors under any environment. These products have switches, with which users can selectively use the line-lock or flickerless function.

By adopting the ELC function, these products can use the Manual Iris Lens economically. Without ELC function, these products can use the automatic lens of DC type or video selectively. Their mechanism is designed to accommodate with any C/CS lens mount adapter. These cameras support easy installation since they can be mounted either on the top or the bottom of the camera adapter. These products can operate on both AC24V and DC12V (SCC-B1091(P) : AC230V).





SCC-B1391 / SCC-B1391P / SCC-B1091P

1/3" 540 TV Lines, Color Digital Camera

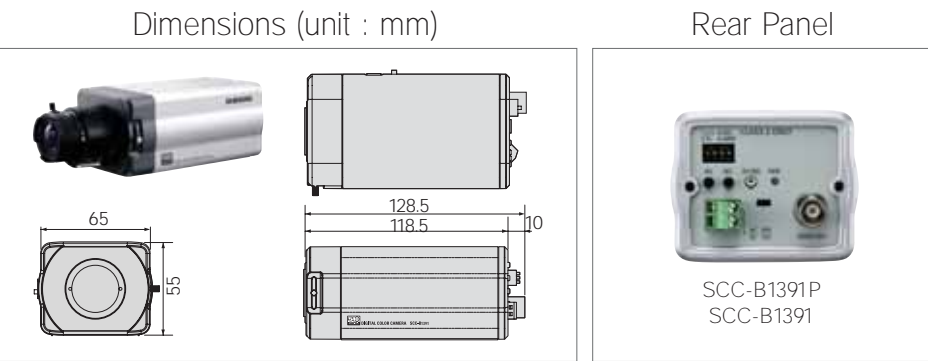


SCC-B2303/SCC-B2303P/SCC-B2003P

1/3" High Resolution, Day/Night Color Digital Camera

Features

- Hi-resolution DSP (Digital Signal Processing)
- 1/3" 470,000pixels super HAD CCD(SCC-B1391:410,000pixels)
- Horizontal resolution of 540 TV lines
- Back light compensation circuitry
- External synchronization with linelock
- Accepts 2 types of auto-iris lenses (DC/Video)
- Accept CS/C-mount lens (with C-mount adaptor)
- Power input (SCC-B1391(P) : AC24V/DC12V Compatible, SCC-B1091(P) : AC230V)
- Built-in ground fault isolation transformer



Summary

This color camera incorporates the 1/3" Super-HAD CCD (410000 pixels for NTSC, 470000 pixels for PAL) and as such can operate 24 hours a day by automatically switching to color mode during the day and black and white (B/W) mode at night.

It employs the SONY CCD and utilizes a superior Digital Signal Processor to supply sharp images of high resolution. Under illumination higher than a certain level, it provides outstanding color images in color mode and clear images in B/W mode under low level illumination.

The camera utilizes the low light function that incorporates the AGC function and low-speed shutter, so that along with the Day/Night function, it can represent clear images even under diffused conditions such as dimly lit parking lots or building interiors. By way of its perfect white balance function, the camera ensures accurate representation of colors under any setting. Through the use of the MICOM, the camera can be controlled perfectly, and combined with the OSD, the MICOM provides various additional functions. Its exceptional BLC (Back Light Compensation) function ensures perfect backlight compensation effect every time by allowing the user to setup five preset zones, positions or sizes for the object darkened by backlighting.

In addition, it can be applied for various purposes since it has a Motion Detection function, a Camera ID indication function that indicates the camera ID up to 20 digits, a Digital 10x zooming function, a PIP function, a Line-Lock function for vertical adjustment, etc. It also has a built-in Samsung protocol, which enables remote control if the 232C Jig is installed externally.

By adopting the ELC function, it can use the manual Iris lens economically. Without ELC function, it can use the automatic lens of DC type or video selectively. Its mechanism is designed to accommodate with any C/CS lens mount adaptor. The camera supports easy installation since it can be mounted either on the top or the bottom of the camera adapter.

Designed to make use of the AC230V power source, SCC-2003P can be employed by being directly plugged into the receptacle. In cases of the SCC-B (P), both AC24V and DC12V (nonpolar) are available with the use of power adapter.

Specifications

* SCC-B1091P model is same as SCC-B1391 except for power input (AC230V)

		SCC-B1391	SCC-B1391P	SCC-B1091P
Camera Type	Color		Color	
Image	Device		Super-HAD CCD	
	Size		1/3 inch	
	Pixels - Total	811 x 508		795 x 596
	Pixels - Effective	768 x 494		752 x 582
Scanning	System		Interlace	
	Horizontal Frequency - Internal Mode	15,734 Hz		15,625 Hz
	Horizontal Frequency - Line-lock Mode	15,750 Hz		15,625 Hz
	Vertical Frequency - Internal Mode	5994 Hz		50 Hz
	Vertical Frequency -Line-lock Mode	60 Hz		50 Hz
Min Scene Illumination	Color		0.3 Lux	
Functions	BLC		On	
	AGC		On	
	ELC		Off/On(Max.1/100Ksec)	
	Line Lock		Off/On	
	White Balance		ATW/MANUAL	
Resolution	Horizontal		540 TV Lines	
	Vertical		350 TV Lines	
Video Output	VBS 1.0Vp-p		VBS 1.0Vp-p	
S/N Ratio	S/N Ratio		50	
Lens	Lens Drive Type		AI (Video/DC)	
Environmental Conditions	Operating Temperature		-10° C ~ +50° C	
	Humidity		Less than 90%	
Power	Power Requirement	AC24V(60Hz)±10%	AC24V(50Hz)±10%	AC220V~240V(50Hz)
	Power Consumption		3W	4W
	LED Indicator		Yes	
Physical Specification	Dimensions (WxHxD) - Net		65 x 52 x 133mm	
	Weight - Net		450 g	550g
	Loading Quantity(20/40ft)		10560 / 21870	
	Packing		540 x 241 x 251 mm	

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model





SCC-B2303/SCC-B2303P/SCC-B2003P

1/3" High Resolution, Day/Night Color Digital Camera



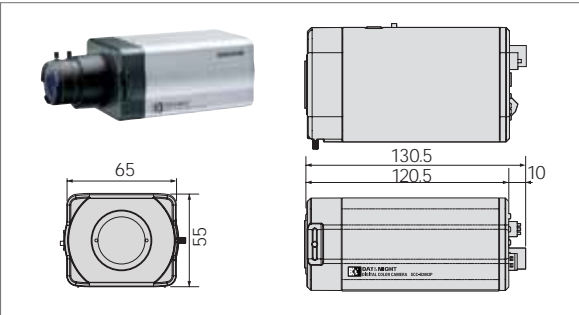
SCC-B2305/SCC-B2305P/SCC-B2005P

1/3" High Resolution, WDR & Day/Night Color Digital Camera

Features

- Day/Night camera
- DSP (Digital Signal Processor)
- 1/3" 470,000pixels, super HAD CCD (SCC-B2303 : 410,000pixels)
- Horizontal resolution (500(color)/530(B/W) TV lines)
- Back light compensation for the various light conditions
- External synchronization with linelock
- Motion detection
- On-screen menus (Multi-language)
- Picture in picture on digital zoom
- Accepts 2 types of auto-iris lenses (DC/Video)
- Accepts CS/C-mount lens (with C-mount adaptor)
- Power input (AC24V/DC12V compatible)
- Built-in ground fault isolation transformer

Dimensions (unit : mm)



Rear Panel



Specifications

		SCC-B2303	SCC-B2303P	SCC-B2003P
Camera Type	Color		Color	
Image	Device		Super-HAD CCD	
	Size		1/3 inch	
	Pixels - Total	811 x 508		795 x 596
	Pixels - Effective	768 x 494		752 x 582
Scanning	System		Interlace	
	Horizontal Frequency-Internal Mode	15,734 Hz		15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz		15,625 Hz
	Vertical Frequency-Internal Mode	5994 Hz		50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz		50 Hz
Min. scene Illumination	Color		0.3 Lux (Sense Up x128 : 0.002)	
	B/W		0.06 Lux (Sense Up x128 : 0.0004)	
Functions	Day/Night		Color / BW / AUTO / EXT	
	Motion Detection		Off / On	
	D-Zoom		Off ~ x10	
	High Speed Shutter		Off ~ 1 / 10Ksec	
	Sense Up		Off ~ x128	
	PIP		Off/On	
	BLC		Off/On	
	AGC		Off/On	
	ELC		Off/On(Max. 1/100Ksec)	
	Line Lock		Off/On	
	Camera ID		Off/On	
	White Balance		ATW / AWC / MANUAL	
Resolution	Horizontal		500/530(Color/BW) TV Lines	
	Vertical		350 TV Lines	
Video Output	VBS 10Vp-p		VBS 10Vp-p	
S/N Ratio	S/N Ratio		52dB	
Lens	Lens Drive Type		AI(Video/DC)	
	Mount Type		C / CS	
	OSD		Yes	
Alarm	Output		1	
Environmental	Operating Temperature		-10°C ~ +50°C	
Conditions	Humidity		Less than 90%	
Power	Power Requirement	AC24V(60Hz)±10% DC12V+10%/-5%	AC24V(50Hz)±10% DC12V+10%/-5%	AC220V~240V(50Hz)
	Power Consumption		45W	50W
	LED Indicator		Yes	
Physical	Dimensions (WxHxD)-Net		65 x 55 x 130.5 mm	
Specification	Weight-Net		450g	550g
	Loading Quantity(20/40ft)		10/560 / 21/870	
	Packing		530 x 241 x 182 mm	

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

As a color camera that adopts the 1/3" progressive Super-HAD CCD (410,000 pixels for the NTSC, 470,000 pixels for the PAL), this product employs a WDR (Wide Dynamic Range) function that can provide clear images even under backlight circumstances where intensity of illumination varies excessively. It also contains a Day/Night function that automatically switches to color mode during the day and B/W mode at night, enabling 24 hours a day observation. Different from the existing BLC (Back Light Compensation) function used under backlighting environments, the WDR function allows user to monitor 2 locations with different illumination simultaneously. If installed at an entrance or beside a window, both the interior and exterior of a building can be monitored concurrently.

It employs the SONY CCD and utilizes a superior Digital Signal Processor to supply sharp images of high resolution. It also utilizes the low light function that incorporates the AGC function and low-speed shutter, so that along with the Day/Night function, it can represent clear images even under diffused conditions such as dimly lit parking lots or building interiors. By way of its perfect white balance function, the camera ensures accurate representation of colors under any setting. Through the use of the MICOM, the camera can be controlled perfectly, and being combined with the OSD, the MICOM provides various additional functions.

In addition, it can be applied for various purposes since it has a Motion Detection function, a Camera ID indication function that indicates the camera ID up to 20 digits, privacy protect function, a Digital 10x zooming function, a PIP function, a Line-Lock function for vertical adjustment, etc. It also has a built-in Samsung protocol, which enables remote control if the 232C Jig is installed externally.

By adopting the ELC function, it can use the manual Iris lens economically. Without ELC function, it can use the automatic lens of DC type or video selectively. Its mechanism is designed to accommodate with C/CS lens mount adaptor. The camera supports easy installation since it can be mounted either on the top or the bottom of the camera adapter.

Designed to make use of the AC230V power source, SCC-B2005(P) can be employed by being directly plugged into the receptacle. In cases of the SCC-B2305P, both AC24V and DC12V (nonpolar) are available with the use of power adapter.





SCC-B2305/SCC-B2305P/SCC-B2005P

1/3" High Resolution, WDR & Day/Night Color Digital Camera



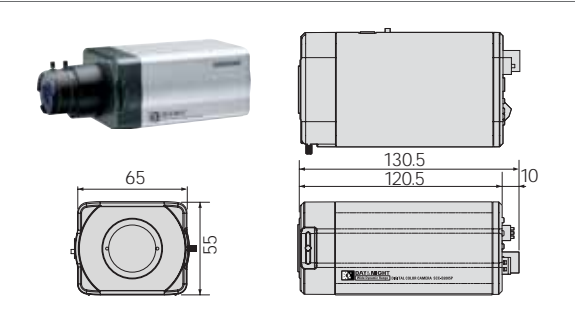
SCC-B2307P / SCC-B2007P

1/3" Ex-view High Resolution, Day/Night Color Digital Camera

Features

- WDR function (Dynamic range NTSC : x64, PAL : x80) • Day/Night function
- DSP (Digital Signal Processor)
- 1/3" 470,000Pixels,progressive super HAD CCD (SCC-B2305 : 410,000Pixels)
- Horizontal resolution (500(color)/530(B/W) TV lines) a minimum scene illumination
- High sensitivity with a minimum scene illumination
- Back light compensation for the various light conditions
- External synchronization with line lock
- Motion detection
- Accepts 2 types of auto-Iris lenses (DC/Video)
- Power input (AC24V/DC12V compatible)
- 8 privacy zones (privacy mask function)
- On-screen menus (Multi-language)
- Accepts CS/C-mount lens (with C-mount adaptor)
- Built-in ground fault isolation transformer

Dimensions (unit : mm)



Rear Panel



Specifications

		SCC-B2305	SCC-B2305P	SCC-B2005P
Camera Type	Color		Color	
	Device		Super-HAD PS CCD	
	Size		1/3 inch	
Image	Pixels - Total	811 x 508		795 x 596
	Pixels - Effective	768 x 494		752 x 582
	System		Interlace	
Scanning	Horizontal Frequency-Internal Mode	15,734 Hz		15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz		15,625 Hz
	Vertical Frequency-Internal Mode	5994 Hz		50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz		50 Hz
	Min. scene Illumination		0.3 Lux (Sense Up x160 : 0.002) 0.06 Lux (Sense Up x160 : 0.0004)	
Functions	Color		0.3 Lux (Sense Up x160 : 0.002)	
	B/W		0.06 Lux (Sense Up x160 : 0.0004)	
	Number of privacy Zone		8	
	Day/Night		Color / BW / AUTO / EXT	
	Motion Detection		Off / On	
	D-Zoom		Off ~ x10	
	High Speed Shutter		Off ~ 1 / 10Ksec	
	Sense Up		Off ~ x128	
	PIP		Off/On	
	BLC		Off/On	
	AGC		Off/On	
	ELC		Off/On(Max. 1/100Ksec)	
	Line Lock		Off/On	
	Camera ID		Off/On	
	White Balance		ATW / AWC / MANUAL	
Resolution	Horizontal		500/530(Color/BW) TV Lines	
	Vertical		350 TV Lines	
Video Output	VBS 1.0Vp-p		VBS 1.0Vp-p	
S/N Ratio	S/N Ratio		52dB	
Lens	Lens Drive Type		AI(Video/DC)	
	Mount Type		C / CS	
OSD	OSD		Yes	
Alarm	Output		1	
Environmental Conditions	Operating Temperature		-10° C ~ +50° C	
	Humidity		Less than 90%	
Power	Power Requirement	AC24V(60Hz)±10% DC12V+10%/-5%	AC220V~240V(50Hz)	AC24V(50Hz)±10% DC12V+10%/-5%
	Power Consumption		4.5W	5.0W
Physical Specification	LED Indicator		Yes	
	Dimensions (WxHxD)-Net		65 x 55 x 130.5 mm	
	Weight-Net		450g	550g
	Loading Quantity(20/40ft)		10/560 / 21870	
	Packing		530 x 241 x 182 mm	

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model

Summary

This color camera adopts the 470,000 pixel 1/3" Ex-view CCD, which enables observation of 24 hours a day by automatically switching to color mode during the day and to B/W mode at night. This camera has low smear, wide dynamic range and sensitivity two times higher than cameras employing general type CCDs. Above all, it has excellent sensitivity at the infrared band, making it highly suitable for the observation of roads at night.

It employs the SONY CCD and utilizes a superior Digital Signal Processor to supply sharp images of high resolution. Under illumination higher than a certain level, it provides outstanding color images in color mode and clear images in B/W mode under low level illumination.

It also utilizes the low light function that incorporates the AGC function and low-speed shutter, so that along with the Day/Night function, it can represent clear images even under diffused conditions such as dimly lit parking lots or building interiors. By way of its perfect white balance function, the camera ensures accurate representation of colors under any setting. Through the use of the MICOM, the camera can be controlled perfectly, and being combined with the OSD, the MICOM provides various additional functions. Its exceptional BLC (Back Light Compensation) function ensures perfect backlight compensation effect every time by allowing the user to setup five preset zones, positions or sizes for the object darkened due to backlighting.

In addition, it can be applied for various purposes since it has a Motion Detection function, a Camera ID indication function that indicates the camera ID up to 20 digits, a Digital 10x zooming function, a PIP function, a Line-Lock function for vertical adjustment, etc. It also has a built-in Samsung protocol, which enables remote control if the 232C Jig is installed externally.

By adopting the ELC function, it can use the manual Iris lens economically. Without ELC function, it can use the automatic lens of DC type or video selectively. Its mechanism is designed to accommodate with any C/CS lens mount adaptor. The camera supports easy installation since it can be mounted either on the top or the bottom of the camera adapter.

Designed to make use of the AC230V power source, SCC-B2007P can be employed by being directly plugged into the receptacle. In case of the SCC-B2307P, both AC24V and DC12V (nonpolar) are available with the use of power adapter.



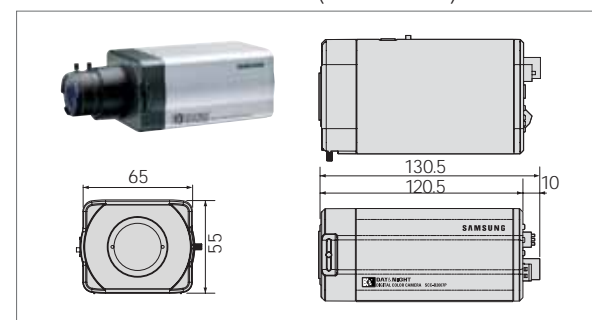


SCC-B2307P / SCC-B2007P 1/3" Ex-view High Resolution, Day/Night Color Digital Camera

Features

- Day/Night camera
- DSP (Digital Signal Processor)
- 1/3" 470,000 pixels, Ex-view super HAD CCD
- Horizontal resolution (500(color)/530(B/W) TV lines)
- Back light compensation for the various light conditions
- External synchronization with line-lock
- Motion detection
- On-screen menus (Multi-language)
- Picture in picture on digital zoom
- Accepts 2 types of auto-Iris lenses (DC/Video)
- Accepts CS/C-mount lens (with C-mount adaptor)
- Power input (SCC-B2307P : AC24V/DC12V compatible/SCC-B2007P : AC230V)
- Built-in ground fault isolation transformer

Dimensions (unit : mm)



Rear Panel



Specifications

		SCC-B2307P	SCC-B2007P
Camera Type	Color		Color
	Device		Ex-View CCD
	Size		1/3 inch
	Pixels - Total		795 x 596
Scanning	Pixels - Effective		752 x 582
	System		Interlace
	Horizontal Frequency-Internal Mode		15,625 Hz
	Horizontal Frequency-Line-lock Mode		15,625 Hz
Min. scene Illumination	Vertical Frequency-Internal Mode		50 Hz
	Vertical Frequency-Line-lock Mode		50 Hz
	Color		0.2Lux (Sense Up x128 : 0.001)
	B/W		0.03Lux (Sense Up x128 : 0.0002)
Functions	Day/Night		Color / BW / AUTO / EXT
	Motion Detection		Off/On
	Wide Dynamic Range		Off-x10
	High Speed Shutter		Off- 1/10Ksec
	Sense Up		Off - x128
	PIP		Off/On
	BLC		Off/On
	AGC		Off/On
	ELC		Off/On(Max. 1/100Ksec)
	Line Lock		Off/On
	Camera ID		Off/On
	White Balance		ATW / AWC / MANUAL
	Horizontal		500/530(Color/BW) TV Lines
	Vertical		350 TV Lines
	Video Output		VBS 1.0Vp-p
Lens	S/N Ratio		52dB
	Lens Drive Type		AI(Video/DC)
OSD	Mount Type		C/CS
	OSD		Yes
Alarm	Output		1
	Operating Temperature		-10° C ~ +50° C
Environmental Conditions	Humidity		Less than 90%
	Power Requirement	AC24V(50Hz)±10% / DC12V±10%/ -5%	AC220V~240V(50Hz)
Power	Power Consumption	45W	50W
	LED Indicator		Yes
Physical Specification	Dimensions (WxHxD)-Net		65 x 55 x 130.5 mm
	Weight-Net	450g	550g
	Loading Quantity(20/40ft)		10/560 / 21/870
	Packing		530 x 241 x 182 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model.



SCC-B2300 / SCC-B2391 SCC-B2391P / SCC-B2091P 1/3" 400 TV Lines, Day/Night Color Digital Camera (SCC-B2300) 1/3" 540 TV Lines, Day/Night Color Digital Camera (SCC-B2391/SCC-B2391P/B2091P)



Summary

As color cameras that adopt the 1/3" state-of-the-art CCD (SCC-B2391(P)/B2091(P)) : 410,000 pixels for NTSC, 470,000 pixels for PAL, SCC-B2300 : 270,000 pixels), these products realize the high resolving power of horizontal resolution (SCC-B2391(P)/B2091(P) : 540 TV lines, SCC-B2300 : 400 TV lines) through the use of Hi-Tech Digital Signal Process. These products also contain a Day/Light function that automatically switches to color mode during the day and to B/W mode at night, enabling 24 hours a day observation. Through the use of SONY Super-HAD CCD and the outstanding digital signal process, these camera provide extremely sharp image quality. By using BLC (Back Light Compensation) function, they are able to give brighter and sharper images of an object darkened by background lighting or sunlight.

Also, these products have excellent CCD sensitivity, which especially allows optimum observation of parking lots or building interiors that are dimly lit at best. Through the perfect Auto/Manual white balance function, these cameras ensure accurate representation of colors under any environment. These products have switches, with which users can selectively use the line-lock or flickerless function.

By adopting the ELC function, these products can use the Manual Iris Lens economically. Without ELC function, these products can use the automatic lens of DC type or video selectively. Their mechanism is designed to accommodate with any C/CS lens mount adapter. These cameras support easy installation since they can be mounted either on the top or the bottom of the camera adapter. These products can operate on both AC24V and DC12V (SCC-B2091(P) : AC230V).



SCC-B2300 / SCC-B2391 SCC-B2391P / SCC-B2091P

1/3" 400 TV Lines, Day/Night Color Digital Camera (SCC-B2300)
1/3" 540 TV Lines, Day/Night Color Digital Camera (SCC-B2391/SCC-B2391P/B2091P)

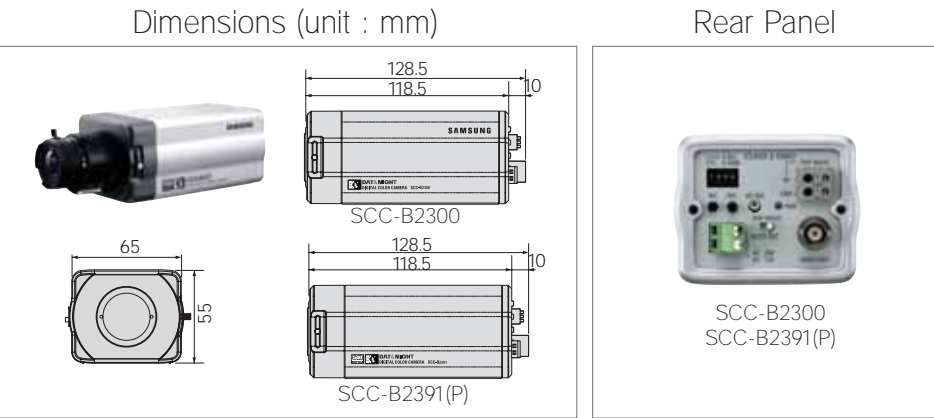


SCC-C4201 / SCC-C4203A SCC-C4201P / SCC-C4203AP

1/4" Zoom Lens Camera

Features

- Day/Night camera
- Hi-resolution DSP (Digital Signal Processing)
- 1/3" 470,000pixels super HAD CCD (SCC-B2391:410,000pixels)
1/3" 270,000 pixels super HAD CCD (SCC-B2300)
- Horizontal resolution of 540/570 TV lines for SCC-B2391(P)/B2091P
Horizontal resolution of 400/420 TV lines for SCC-B2300
- Back light compensation circuitry
- External synchronization with linelock
- Accepts 2 types of auto-iris lenses (DC/Video)
- Accept CS/C-mount lens (with C-mount adaptor)
- Power input (SCC-B2300/B2391(P) : AC24V/DC12V Compatible, SCC-B2091P : AC230V)
- Built-in ground fault isolation transformer



Specifications

* SCC-B2091P model is same as SCC-B2391 except for power input (AC230V)

		SCC-B2300	SCC-B2391	SCC-B2391P	SCC-B2091P
Camera Type	Color	Color			
Image	Device	Super-HAD CCD			
	Size	1/3 inch			
	Pixels - Total	537 x 505	811 x 508	795 x 596	
	Pixels - Effective	505 x 492	768 x 494	752 x 582	
Scanning	System	Interlace			
	Horizontal Frequency - Internal Mode	15,734 Hz		15,625 Hz	
	Horizontal Frequency - Line-lock Mode	15,750 Hz		15,625 Hz	
	Vertical Frequency - Internal Mode	5994 Hz		50 Hz	
	Vertical Frequency -Line-lock Mode	60 Hz		50 Hz	
Min. Scene Illumination	Color	0.2 Lux	0.3 Lux		
	B/W	0.03 Lux	0.06 Lux		
Functions	Day/Night	AUTO / EXT			
	BLC	On			
	AGC	On			
	ELC	On(Max.1/100Ksec)			
	Line Lock	Off/On			
	White Balance	ATW / MANUAL			
Resolution	Horizontal	400/420(Color/BW) TV Line	540/570(Color/BW) TV Line		
	Vertical	350 TV Lines			
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p			
S/N Ratio	S/N Ratio	50 dB			
Lens	Lens Drive Type	AI (Video/DC)			
Environmental	Operating Temperature	-10 ° C ~ +50 ° C			
Conditions	Humidity	Less than 90%			
Power	Power Requirement	AC24V(60Hz) ± 10% DC12V+10%/ -5%	AC24V(50Hz) ± 10% DC12V+10%/ -5%		AC220V ~ 240V(50Hz)
	Power Consumption	3 W			4 W
Physical Specification	LED Indicator	Yes			
	Dimensions (WxHxD) - Net	68(W) x 55(H) x 128.5(D)mm			
	Weight - Net	450 g			550 g
	Loading Quantity(20/40ft)	10,560 / 21,870			
	Packing	540 x 241 x 251 mm			

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

This product is a high performance surveillance camera with 220x zooming power afforded by implementation of 22x optical zoom and 10x digital zoom. It includes various significant functions that existing surveillance cameras have such as: (1) low illumination surveillance function that makes it possible to take pictures under the worst lighting conditions, (2) white balance function that makes natural images according to the lighting, (3) backlight compensation function that perfectly compensates the dark areas on objects created by the backlighting even under a spotlight, (4) auto focus function that adjusts the focus according to the movement of an object, (5) and RS485/wired remote control function.

(The SCC-C4203A(P) is a day/night camera equipped with the Day/Night function for 24 hour-a-day surveillance by switching modes between Color and B/W according to the surrounding illumination to secure the optimum image.)

As a zoom lens integrated camera designed to be used for various applications, this product can be simply installed at lower configuration cost than the lens detachable camera. Since this product supports both the RS-485 communication interface and the wired remote control, user can use remote control conveniently.

If used with the RS-485 communication protocol, this camera can be remote controlled up to 128 units per system with the DVR and various controllers including SSC-1000 and SSC-2000. If the wired remote control is utilized, it can perform zooming, focusing and menu manipulating simply with the SCC-RC130.





SCC-C4201 / SCC-C4203A SCC-C4201P / SCC-C4203AP

1/4" Zoom Lens Camera

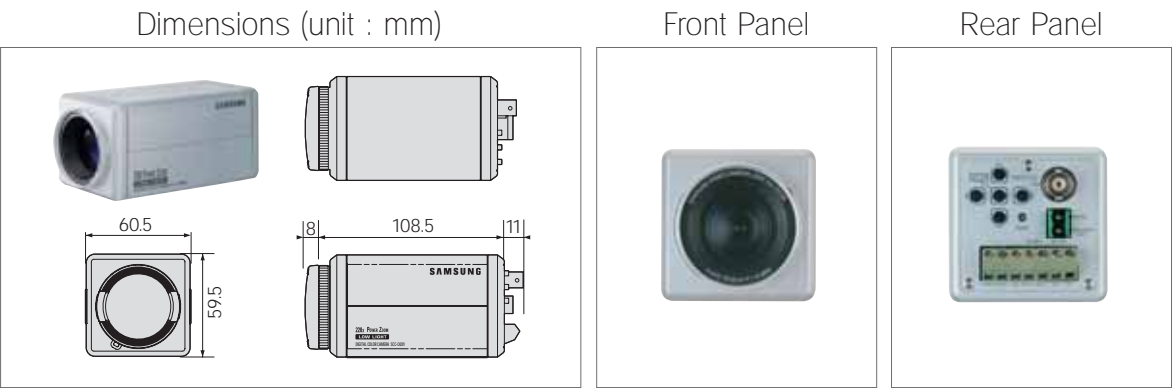


SCC-C4205 / SCC-C4305 SCC-C4205P / SCC-C4305P

220x Power Zoom, WDR, D/N Camera

Features

- Superior images through DSP (Digital Signal Processor)
- 1/4" 470,000 pixels, Super HAD CCD (SCC-C4201 / C4203A:410,000pixels)
- Horizontal resolution of more than 480 lines
- 10-bit A/D converter • Motion detection
- Optical 22x zoom (f=3.6~79.2mm), 10x digital zoom lens (Maximum 220x zoom)
- Outstanding signal-to-noise (S/N) ratio (52dB)
- Both RS-485 communication interface & wired remote control function
- Day&Night function (SCC-C4203A(P))
- Minimum illumination of 0.01Lux (C4203A(P) : 0.003Lux for the B/W)



Specifications

		SCC-C4201	SCC-C4203A	SCC-C4201P	SCC-C4203A
Camera Type	Color	Color			
	Device	Super-HAD CCD			
	Size	1/4 inch			
Image	Pixels - Total	811 x 508		795 x 596	
	Pixels - Effective	768 x 494		752 x 582	
	System	Interlace			
Scanning	Horizontal Frequency-Internal Mode	15,734 Hz		15,625 Hz	
	Vertical Frequency-Internal Mode	5994 Hz		50 Hz	
Min. scene Illumination	Color	0.3 Lux (Sense Up X4 30IRE), 0.01 Lux (Sense Up X128)			
	B/W	0.04 Lux (Sense Up X128 : 0.003 Lux);(SCC-C4203A Only)			
	Day/Night		Color / BW / Auto		Color / BW / Auto
Functions	Motion Detection	Off/On			
	D-Zoom	Off ~ X10			
	High Speed Shutter	Off ~ 1/10Ksec			
	Sense Up	Off ~ X128			
	PIP	Off/On			
	BLC	Off/On			
	AGC	Off/On			
	Line Lock	No			
	Camera ID	Max 20 Character			
	White Balance	ATW / AWC / MANUAL			
	Number of Preset	128			
	Horizontal	480 TV Lines			
	Vertical	350 TV Lines			
	Video Output	VBS 10Vp-p			
	S/N Ratio	52dB			
Lens	Focal Length	3.6 ~ 79.2 mm			
	Zoom ratio	22X			
	Aperture Ratio	F1.6(Wide), F3.8(Tele)			
	Viewing Angle-Tele	2° 3'(H) x 1° 7'(V)			
	Viewing Angle-Wide	47° 9'(H) x 36° 9'(V)			
OSD	OSD	Yes			
Alarm	Output	1			
Remote Control	RS485, Voltage control	RS485, Voltage control			
Environmental	Operating Temperature	-10° C ~ +50° C			
Conditions	Humidity	Less than 90%			
Power	Power Requirement	DC12V ±10%			
	Power Consumption	5W			
	LED Indicator	Yes			
Physical Specification	Dimensions (WxHxD)-Net	60.5 x 59.5 x 119.5 mm			
	Weight-Net	375g			
	Loading Quantity(20/40ft)	10/560 / 21870			
	Packing	530 x 241 x 182 mm			

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

SCC-C4X05(P) is the best camera available from Samsung in terms of zoom. With 22x optical lens, a maximum of 220x zoom is available when combined with 10x digital zoom.

Employing the latest SONY 1/4 inch WDR Ex-view HAD CCD, a sharp and clear image can be produced even an illumination difference between the inside and outside exist. The SCC-C4X05(P) is equipped with the Day/Night function for 24hours-a-day surveillance by switching modes between Color and B/W according to the surrounding illumination to secure the optimum image. Privacy-Zone option enables to hide a pre-specified area to protect privacy, and RS485 Cable Remote Control makes it easier for users to operate the cameras.

It is the user-friendly surveillance camera that comes with various useful functions such as White Balance function that ensures accurate representation of colors under any environment without producing a picture that is either more red or blue, and Auto-Focus function that automatically adjusts focus in response to the movement of the object.





SCC-C4205 / SCC-C4305

SCC-C4205P / SCC-C4305P

220x Power Zoom, WDR, D/N Camera



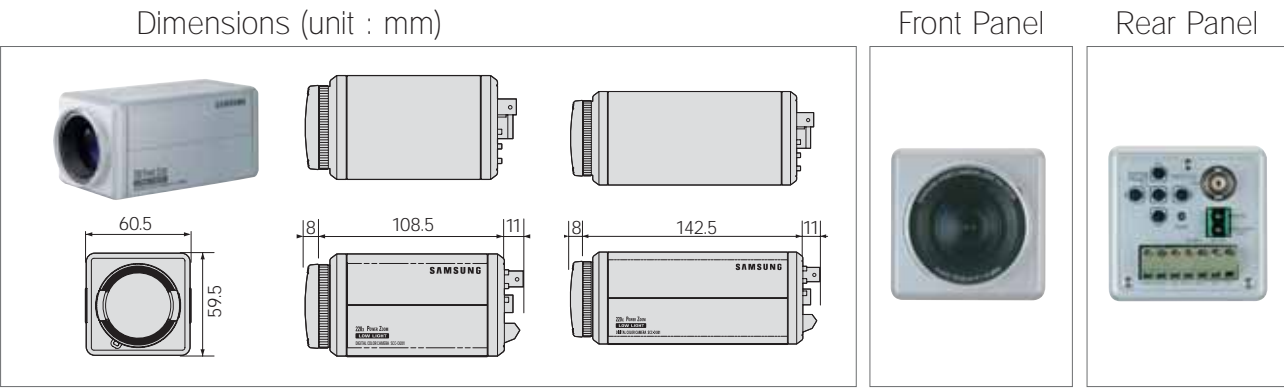
SCC-C4301 / SCC-C4303A

SCC-C4301P / SCC-C4303AP

1/4" Zoom Lens Camera

Features

- x22 motorized optical zoom with x10 digital zoom
- Horizontal resolution (480 TV Lines)
- WDR function, D/N function
- Motion detection function with alarming output
- Remote-Control (Zoom, focus, Iris open-close)
- 1 Alarm output (Motion Detection)
- 1/4 Inch WDR Ex-view PS CCD
- DSP (Digital Signal Processing)
- External synchronization with linelock (SCC-C4305(P)_only)
- On-screen menus (Multi-Language)
- Minimum scene Illumination (Color : 0.005Lux, sens up X160)



Specifications

		SCC-C4205	SCC-C4305	SCC-C4205P	SCC-C4305P
Camera Type	Color			Color	
	Device			Ex-View PS CCD	
Image	Size			1/4 inch	
	Pixels - Total	811 x 508			795 x 596
Scanning	Pixels - Effective	768 x 494			752 x 582
	System			Interlace	
Min. scene Illumination	Horizontal Frequency-Internal Mode	15,734 Hz			15,625 Hz
	Horizontal Frequency-Line-lock Mode	-	15,750 Hz	-	15,625 Hz
	Vertical Frequency-Internal Mode	59,94 Hz			50 Hz
	Vertical Frequency-Line-lock Mode	-	60 Hz	-	50 Hz
Functions	Color		0.2 Lux(Sense Up x 40, 0.005 Lux(Sense Up x 128)		
	B/W		0.07 Lux(Sense Up x 40, 0.0002 Lux(Sense Up x 128)		
	Day/Night		Color / BW / Auto / EXT		
	Motion Detection		Off/On		
	Wide Dynamic Range		Off/On		
	D-Zoom		Off ~ x10		
	High Speed Shutter		Off ~ 1/10Ksec		
	Sens Up		Off ~ x160		
	BLC		Off/On		
	AGC		Off/LOW/HIGH		
	Line Lock	-	Off/On	-	Off/On
	Camera ID		Max 20 Character		
	White Balance		ATW1 / ATW-2 / AWC / MANUAL		
	Number of Privacy Zone		8 ea		
	Resolution		480 TV Lines		
Video Output	Horizontal		350 TV Lines		
	Vertical				
S/N Ratio	VBS 10Vp-p		VBS 10Vp-p		
	S/N Ratio		50dB		
Lens	Focal Length		3.6 ~ 79.2 mm		
	Zoom ratio		22X		
	Aperture Ratio		F1.6(Wide), F3.8(Tele)		
	Viewing Angle-Tele		2° 3'(H) x 1° 7'(V)		
	Viewing Angle-Wide		47° 9'(H) x 36° 9'(V)		
OSD	OSD		Yes		
	Output		1		
Remote Control	RS485		Yes		
	Operating Temperature		-10 ° C ~ +50 ° C		
Environmental Conditions	Humidity		Less than 90%		
	Power Requirement				
Power	Power Consumption	DC12V+10%/-5%	AC24(60Hz) DC12V+10%/-5%	DC12V+10%/-5%	AC24(50Hz) DC12V+10%/-5%
	LED Indicator	5.7W	6W	5.7W	6W
Physical Specification	Dimensions (WxHxD)-Net	595 x 605 x 115.7mm	595 x 605 x 149.9mm	595 x 605 x 115.7mm	595 x 605 x 149.9mm
	Weight-Net	390g	515g	390g	515g
	Loading Quantity (20/40ft)	828 / 1692	928 / 1880	828 / 1692	928 / 1880
	Packing	112 x 95 x 170mm	114 x 97 x 205mm	112 x 95 x 170mm	114 x 97 x 205mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

This product is a high performance surveillance camera with 220x zooming power afforded by implementation of 22x optical zoom and 10x digital zoom. (The SCC-C4303A(P) is a day/night camera equipped with the Day/Night function for 24 hours-a-day surveillance by switching modes between Color and B/W according to the surrounding illumination to secure the optimum image.)

The camera includes various significant functions that existing surveillance cameras have such as: (1) low illumination surveillance function that makes it possible to take pictures under the worst lighting conditions, (2) white balance function that makes natural images according to the lighting, (3) backlight compensation function that perfectly compensates the dark areas on objects created by the backlighting even under a spotlight, (4) auto focus function that adjusts the focus according to the movement of an object, (5) and RS485/wired remote control function.

As a zoom lens integrated camera designed to be used for various applications, this product can be simply installed at lower configuration cost than the lens detachable camera. Since this product supports both the RS-485 communication interface and the wired remote control, user can perform remote control conveniently. If used with the RS-485 communication protocol, this camera can be remote controlled up to 128 units per system with the DVR and various controllers including SSC-1000 and SSC-2000. If the wired remote control is utilized, it can perform zooming, focusing and menu manipulating simply with the SCC-RC130.

This product can operate on both DC12V and AC24V. When operated on AC24V, either internal or external power frequency synchronization method can be selected as a vertical synchronization method.





SCC-C4301 / SCC-C4303A SCC-C4301P / SCC-C4303AP

1/4" Zoom Lens Camera

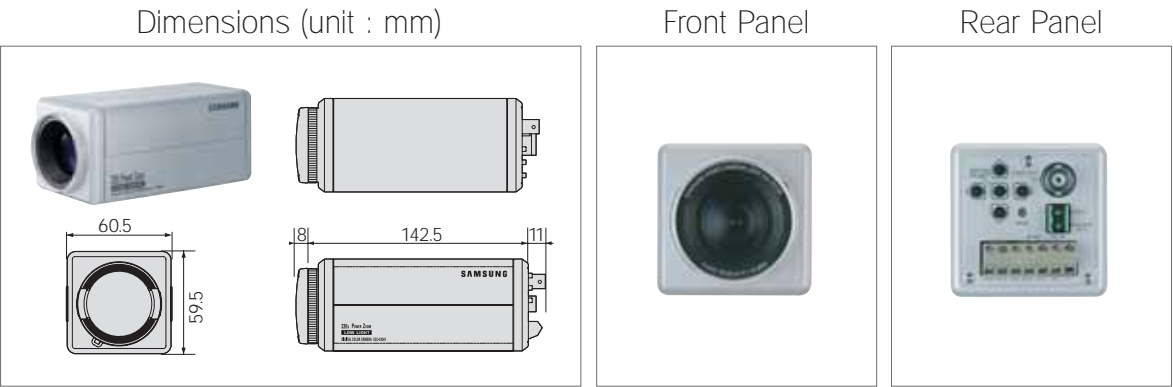


SCC-C4207 / SCC-C4307 SCC-C4207P / SCC-C4307P

320x Power Zoom, WDR, D/N Camera

Features

- Superior images through DSP (Digital Signal Processor)
- 1/4" 470,000pixels, super HAD CCD (SCC-C4301 / C4303A : 410,000pixels)
- Horizontal resolution of more than 480 lines
- 10-bit A/D converter • Motion detection
- Optical 22x zoom (f=3.6~79.2mm), 10x digital zoom lens (Maximum 220x zoom)
- Outstanding signal-to-noise (S/N) ratio (52dB)
- Both RS-485 communication interface & wired remote control function
- Day&Night function (SCC-C4303A(P))
- Minimum illumination of 0.01Lux (C4303A(P) : 0.003Lux for the B/W)



Specifications

		SCC-C4301	SCC-C4303A	SCC-C4301P	SCC-C4303AP
Camera Type	Color			Color	
Image	Device		Super-HAD CCD		
	Size		1/4 inch		
	Pixels - Total	811 x 508		795 x 596	
	Pixels - Effective	768 x 494		752 x 582	
Scanning	System		Interface		
	Horizontal Frequency-Internal Mode	15,734 Hz		15,625 Hz	
	Horizontal Frequency-Line-lock Mode	15,750 Hz		15,625 Hz	
	Vertical Frequency-Internal Mode	59.94 Hz		50 Hz	
	Vertical Frequency-Line-lock Mode	60Hz		50 Hz	
Min. scene Illumination	Color		0.3 Lux (Sense Up X4 30IRE, 0.01 Lux (Sense Up X128)		
	B/W		0.04 Lux (Sense Up X128 : 0.003 Lux); (SCC-C4303A(P) Only)		
Functions	Day/Night		Color/ BW / Auto		Color/ BW / Auto
	Motion Detection		Off/On		
	D-Zoom		Off ~ X10		
	High Speed Shutter		Off ~ 1/10Ksec		
	Sense Up		Off ~ X128		
	PIP		Off/On		
	BLC		Off/On		
	AGC		Off/On		
	Line Lock		Off/On		
	Camera ID		Max 20 Character		
	White Balance		ATW/AWC/MANUAL		
	Number of Preset		128		
Resolution	Horizontal		480 TV Lines		
	Vertical		350 TV Lines		
Video Output	VBS 1.0Vp-p		VBS 1.0Vp-p		
S/N Ratio	52		52dB		
Lens	Focal Length		3.6 ~ 79.2 mm		
	Zoom ratio		22X		
	Aperture Ratio		F1.6(Wide), F3.8(Tele)		
	Viewing Angle-Tele		2' 3"(H) x 1' 7"(V)		
	Viewing Angle-Wide		47' 9"(H) x 36' 9"(V)		
OSD	OSD		Yes		
Alarm	Output		1		
Remote Control	RS485, Voltage control		RS485, Voltage control		
Environmental	Operating Temperature		-10° C ~ +50° C		
Conditions	Humidity		Less than 90%		
Power	Power Requirement	AC24V(60Hz) ±10% / DC12V±10%/ -5%		AC24V(50Hz) ±10% / DC12V±10%/ -5%	
	Power Consumption		5W		
	LED Indicator		Yes		
Physical	Dimensions (WxHxD)-Net		60.5 x 59.5 x 153.5 mm		
Specification	Weight-Net		500g		
	Loading Quantity(20/40ft)		8,280 / 8,800		
	Packing		530 x 241 x 217 mm		

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

SCC-C4X07(P) is the best camera available from Samsung in terms of zoom. With 32x optical lens, a maximum of 320x zoom is available when combined with 10x digital zoom.

Employing the latest SONY 1/4 inch WDR Ex-view HAD CCD, a sharp and clear image can be produced even an illumination difference between the inside and outside exist. The SCC-C4X07(P) is equipped with the Day/Night function for 24hours-a-day surveillance by switching modes between Color and B/W according to the surrounding illumination to secure the optimum image. Privacy-Zone option enables to hide a pre-specified area to protect privacy, and RS485 Cable Remote Control makes it easier for users to operate the cameras.

It is the user-friendly surveillance camera that comes with various useful functions such as White Balance function that ensures accurate representation of colors under any environment without producing a picture that is either more red or blue, and Auto-Focus function that automatically adjusts focus in response to the movement of the object.





SCC-C4207 / SCC-C4307 SCC-C4207P / SCC-C4307P

320x Power Zoom, WDR, D/N Camera



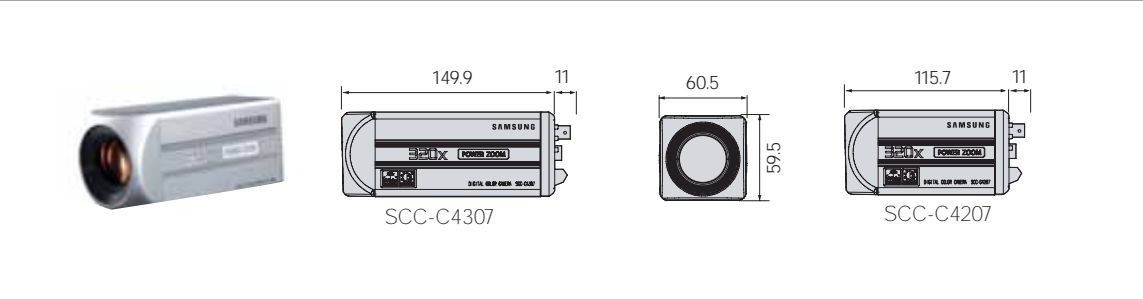
SCC-B5203S / SCC-B5203SP

High-resolution, Fixed Mini-Dome Color Digital Camera

Features

- x32 motorized optical zoom with x10 digital zoom
- 1/4 Inch WDR Ex-view HAD CCD
- DSP (Digital Signal Processing)
- External synchronization with linelock (SCC-C4207(P)_only)
- Motion detection function with alarming output
- Remote-Control (Zoom, focus, Iris open-close)
- 1 Alarm output (Motion Detection)
- Horizontal resolution (480 TV Lines)
- WDR function, D/N function
- On-screen menus (Multi-Language)
- Minimum scene Illumination (Color : 0.002Lux, sens up X160)

Dimensions (unit : mm)



Specifications

		SCC-C4207	SCC-C4307	SCC-C4207P	SCC-C4307P
Camera Type	Color			Color	
	Device			Ex-View PS CCD	
Image	Size			1/4 inch	
	Pixels - Total	811 x 508			795 x 596
Scanning	Pixels - Effective	768 x 494			752 x 582
	System			Interlace	
Horizontal Frequency-Internal Mode		15,734 Hz			15,625 Hz
	Horizontal Frequency-Line-lock Mode	-	15,750 Hz	-	15,625 Hz
Vertical Frequency-Internal Mode		59.94Hz			50Hz
	Vertical Frequency-Line-lock Mode	-	60 Hz	-	50 Hz
Min. scene Illumination	Color		0.09 Lux(Sense Up x 4, 15 IRE, Sense Up x 128 : 0.002 Lux)		
	B/W		0.009 Lux(Sense Up x 4, 15 IRE, Sense Up x 128 : 0.0002 Lux)		
Functions	Day/Night		Color / BW / Auto / EXT		
	Motion Detection		Off/On		
Wide Dynamic Range			Off/On		
	D-Zoom		Off ~ x10		
High Speed Shutter			Off ~ 1/10Ksec		
	Sens Up		Off ~ x160		
BLC			Off/On		
	AGC		Off / LOW / HIGH		
Line Lock		-	Off/On	-	Off/On
	Camera ID		Max 20 Character		
White Balance			ATW-1 / ATW-2 / AWC / MANUAL		
	Number of Privacy Zone		8 ea		
Resolution	Horizontal		480 TV Lines		
	Vertical		350 TV Lines		
Video Output	VBS 10Vp-p		VBS 10Vp-p		
	S/N Ratio		50dB		
Lens	Focal Length		3.55 ~ 113 mm		
	Zoom ratio		32X		
Aperture Ratio			F1.69(Wide), F4.17(Tele)		
	Viewing Angle-Tele		1° 78'(H) x 1° 34'(V)		
Viewing Angle-Wide			41° 5'(H) x 43° 01'(V)		
OSD	OSD		Yes		
	Output		1		
Alarm	Remote Control		Yes		
	RS485				
Environmental	Operating Temperature		-10 ° C ~ +50 ° C		
	Humidity		Less than 90%		
Power	Power Requirement	DC12V+10%/-5%	AC24(60Hz) DC12V+10%/-5%	DC12V+10%/-5%	AC24(50Hz) DC12V+10%/-5%
	Power Consumption	5.5W	6W	5.5W	6W
Physical	LED Indicator		Yes		
	Dimensions (WxHxD)-Net	59.5 x 60.5 x 115.7mm	59.5 x 60.5 x 149.9mm	59.5 x 60.5 x 115.7mm	59.5 x 60.5 x 149.9mm
Specification	Weight-Net	390g	515g	390g	515g
	Loading Quantity (20/40ft)	828 / 1692	928 / 1880	828 / 1692	928 / 1880
Packing		112 x 95 x 170mm	114 x 97 x 205mm	112 x 95 x 170mm	114 x 97 x 205mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

SCC-B5203(S)(P) is an economical, high-performance color surveillance camera which adopted the latest 1/3" CCD (410,000 pixels for NTSC, 470,000 pixels for PAL).

As its distinct f=3.0mm lens and 1/3" CCD offers wide view angle, this mini-dome camera is perfect for the use in narrow areas like in the elevator. Its small, dome-like shape (85(ø)x54(H)mm) is easy to install on the ceiling and no external housing is necessary for install. This elegantly designed camera is available in black and silver.

This camera employs the SONY CCD and utilizes a superior Digital Signal Processor to supply sharp images of high horizontal resolution (520 TV lines), while powerful BLC (Back Light Compensation) function ensures perfect backlight compensation effect recovering brighter and clearer images out of indistinct, dark images. Super-HAD CCD guarantees superior sensitivity and Auto White Balance function helps ensures accurate representation of colors.





SCC-B5203S / SCC-B5203SP

High-resolution, Fixed Mini-Dome Color Digital Camera

Features

- DSP (Digital Signal Processing)
- 1/3" 470,000pixels super HAD CCD (SCC-B5203(S) : 410,000pixels)
- Horizontal resolution (520 TV lines)
- Lens : f = 3.0mm
- Back light compensation circuitry
- Power Input (DC12V)
- Built-in ground fault isolation transformer
- SCC-B5203S(P) : Silver Body-Color / SCC-B5203(P) : Black Body-Color

Dimensions (unit : mm)



Specifications

		SCC-B5203(S)	SCC-B5203(S)P
Camera Type Image	Color	Color	
	Device	Super-HAD CCD	
	Size	1/3 inch	
	Pixels - Total	811 x 508	795 x 596
Scanning	Pixels - Effective	768 x 494	752 x 582
	System	Interlace	
	Horizontal Frequency-Internal Mode	15,734 Hz	15,625 Hz
	Vertical Frequency-Internal Mode	5994 Hz	50 Hz
Min. scene Illumination	Color	0.3 Lux	
	PAN/TILT	330° (Manual)	
	Range-Panning	15° ~ 90° (Manual)	
	Range-Tilting	On	
Functions	BLC	On	
	AGC	On	
	ELC	On(Max.1/120Ksec)	
	White Balance	ATW / AWC	
Resolution	Horizontal	520 TV Lines	
	Vertical	350 TV Lines	
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p	
S/N Ratio	S/N Ratio	50dB	
Lens	Focal Length	3 mm	
	Aperture Ratio	F2	
	Viewing Angle	95° (H) x 71° (V)	
	Operating Temperature	-10° C ~ +50° C	
Environmental Conditions	Humidity	Less than 90%	
	Power Requirement	DC12V+10%/ -5%	
Power	Power Consumption	2W	
	Dimensions(ø x H)-Net	85(ø) x 54(H) mm	
	Weight-Net	125g	
	Loading Quantity(20/40ft)	15,840 / 31,680	
Physical Specification	Etc.-Body Color	B5203 : Black / B5203S : Silver	B5203P : Black / B5203SP : Silver
	Packing	118 x 101 x 118 mm	

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCC-B5300G/SCC-B5300GP/SCC-B5301G/SCC-B5303G SCC-B5305G/SCC-B5301GP/SCC-B5303GP/SCC-B5303GP

Fixed Dome Color Digital Camera



Summary

This color camera is capable of superb observation, thanks to its state-of-the-art implementation of 1/3" CCD 410,000 pixels (NTSC), and 470,000 pixels (PAL) at an economical price. (B5300(G)(P):270,000 pixels (NTSC), 320,000 pixels (PAL))

B5300 and B5301 models: both equipped with a 3.8 mm (focal length) lens and optical low pass filter, they can be used at ordinary places. B5303 model: equipped with a 2.9 mm (focal length) lens and optical low pass filter, it can be used in small spaces like an elevator. B5305: equipped with an 8.0 mm (focal length) telephoto lens and optical low pass filter, it can be used in long and narrow spaces such as a corridor.

This product is an aesthetically designed dome type camera, which can be installed on ceilings without the need for separate external housing. It is available in either black or white finish. Through the use of SONY CCD and outstanding digital signal processor, this camera provides extremely sharp image quality. By using its backlight compensation function it is able to give brighter and sharper images of an object darkened by background lighting or sunlight. It is highly sensitive since it employs the Super-HAD CCD. It also represents correct color using the Auto White Balance function, and has no color rolling by employing the automatic line-lock switching system.

Both AC24V and DC12V (nonpolar) are available with the use of power adapter.





SCC-B5300G/SCC-B5300GP/SCC-B5301G/SCC-B5303G
SCC-B5305G/SCC-B5301GP/SCC-B5303GP/SCC-B5303GP
Fixed Dome Color Digital Camera

Features

- DSP (Digital Signal Processor)
- 1/3" NTSC : 410,000 / PAL : 470,000(B5300(G) : 270,000 / B5300(G)P : 320,000)pixels
- Horizontal resolution : 480 TV lines (B5300 : 330 TV lines)
- Lens : f = 3.8mm (B5300(G)(P), B5301(G)(P)) / 2.9mm (B5303(G)(P)) / 8mm (B5305(G)(P))
- Back light compensation circuitry
- Power input (AC24V/DC12V compatible)
- External synchronization with linelock (Auto change with using power)
- Built-in ground fault isolation transformer

Dimensions (unit : mm)



Rear Panel



Specifications

		SCC-B5300(G)	SCC-B5300(G)P	SCC-B5301(G) SCC-B5303(G) SCC-B5305(G)	SCC-B5301(G)P SCC-B5303(G)P SCC-B5305(G)P
Camera Type	Color	Color			
Image	Device	Super-HAD CCD			
	Size	1/3 inch			
	Pixels-Total	537 x 505	537 x 597	811 x 508	795 x 596
	Pixels-Effective	510 x 492	500 x 582	768 x 494	752 x 582
Scanning	System	Interlace			
	Horizontal Frequency-Internal Mode	15,734 Hz	15,625 Hz	15,734 Hz	15,625 Hz
	Horizontal Frequency-Line-lock Mod	15,750 Hz	15,625 Hz	15,750 Hz	15,625 Hz
	Vertical Frequency-Internal Mode	5994 Hz	50 Hz	5994 Hz	50 Hz
	Vertical Frequency-Line-lock Mod	60 Hz	50 Hz	60 Hz	50 Hz
Min. Scene Illumination	Color	0.3 Lux		0.5 Lux	
PAN/TILT	Range-Panning	132° (Manual)			
	Range-Tilting	90° (Manual)			
Functions	BLC	On			
	AGC	On			
	ELC	On(Max.1/100Ksec)			
	Line Lock	Off(DC power) / On(AC power)			
	White Balance	ATW			
	Resolution	Horizontal	330 TV Lines		480 TV Lines
	Vertical	350 TV Lines			
Video Output	VBS 10Vp-p	VBS 10Vp-p			
S/N Ratio	S/N Ratio	50dB			
Lens	Focal Length	3.8 mm		B5301(G)(P) : 3.8mm / B5303(G)(P) : 2.9mm / B5305(G)(P) : 8.0mm	
	Aperture Ratio	F2			
	Viewing Angle	74° (H) x 54° (V)		B5301(G)(P):74° (H) x 54° (V) / B5303(G)(P):94° (H) x 74° (V) / B5305(G)(P):30° (H) x 23° (V)	
Environmental Conditions	Operating Temperature	-10° C ~ +50° C			
	Humidity	Less than 90%			
Power	Power Requirement	AC24V(60Hz)+10% DC12V+10%/-5%	AC24V(50Hz)+10% DC12V+10%/-5%	AC24V(60Hz)+10% DC12V+10%/-5%	AC24V(50Hz)+10% DC12V+10%/-5%
	Power Consumption	3W			
Physical Specification	Dimensions (W x D x H)-Net	100(ø) x 67(H)mm			
	Weight	180g			
	Loading Quantity (20/40ft)	10,560 / 21,870			
	Etc.-Body Color	B5300 : Black B5300G : Gray	B5300P : Black B5300GP : Gray	B5301/03/05 : Black B5300G/03G/05G : Gray	B5301P/03P/05P : Black B5301GP/03GP/05GP : Gray
	Package	540 x 241 x 182 mm			

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCC-B5351 G / SCC-B5351 GP
Vari-Focal Fixed Dome Color Digital Camera



Summary

SCC-B5351(G)(P) is high performance dome type color camera that adopts the most advanced 410,000 pixel 1/3" CCD (470,000 pixels for PAL). It is designed to have artistic appearance to match with the interior of buildings where it is installed. By employing 3.4~9 mm (focal length) Vari-Focal lens, it affords various view angles according to the installation environment. The low pass filter and digital signal processor help represent true colors. It is an aesthetically designed dome type camera, which can be installed on ceilings without the need of separate external housing. It is available in either black or white finish.

Through the use of SONY CCD and the outstanding digital signal processor, this camera provides extremely sharp image quality. By using its backlight compensation function it is able to give brighter and sharper images of an object darkened by background lighting or sunlight. Particularly, it applies the highly sensitive Super-HAD CCD, and supports perfect auto white balance function, ensuring accurate representation of colors under any environment. It also supports the auto line-lock function to prevent color rolling.

Both AC24V and DC12V (nonpolar) are available with the use of power adapter.





SCC-B5351G / SCC-B5351GP

Vari-Focal Fixed Dome Color Digital Camera

Features

- DSP (Digital Signal Processor)
- 1/3" NTSC : 410,000 / PAL : 470,000 pixels super HAD CCD
- Horizontal resolution (480 TV Lines)
- Lens : f = 3.4 ~ 9mm auto iris
- Back light compensation circuitry
- External synchronization with line-lock
- Power input (AC24V/DC12V compatible)
- Built-in ground fault isolation transformer

Dimensions (unit : mm)



Specifications

		SCC-B5351(G)	SCC-B5351(G)P
Camera Type	Color	Color	
	Device	Super-HAD CCD	
	Size	1/3 inch	
Image	Pixels - Total	811 x 508	795 x 596
	Pixels - Effective	768 x 494	752 x 582
	System	Interlace	
Scanning	Horizontal Frequency-Internal Mode	15,734 Hz	15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750Hz	15,625 Hz
	Vertical Frequency-Internal Mode	5994 Hz	50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz	50 Hz
Min. scene Illumination	Color	0.3 Lux	
	PAN/TILT	345° (Manual)	
	Range-Tilting	90° (Manual)	
Functions	BLC	On	
	AGC	On	
	FLK	Off/On	
	Line Lock	Off/On	
	White Balance	ATW	
Resolution	Horizontal	480 TV Lines	
	Vertical	350 TV Lines	
Video Output	VBS 10Vp-p	VBS 10Vp-p	
S/N Ratio	S/N Ratio	50dB	
Lens	Focal Length	3.4~9 mm	
	Aperture Ratio	F16(Wide), F24(Tele)	
	Viewing Angle-Tele	31° (H) x 23° (V)	
	Viewing Angle-Wide	83° (H) x 62° (V)	
	Lens Drive Type	AI (DC)	
Environmental Conditions	Operating Temperature	-10° C ~ +50° C	
	Humidity	Less than 90%	
Power	Power Requirement	AC24V(60Hz)±10% / DC12V+10%/-5%	
	Power Consumption	3W	
Physical Specification	Dimensions(ø x H)-Net	118(ø) x 100(H) mm	
	Weight-Net	250g	
	Loading Quantity(20/40ft)	4,080 / 8,160	
	Etc - Body Color	B5351 : Black / B5351G : White	
	Packing	587 x 435 x 359 mm	

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCC-931T / SCC-931TP

1/4" High Resolution, Anti-Vandal Dome Color Digital Camera,
Motorized 12x Zoom Lens



Summary

SCC-931T(P) is a dome type color camera that adopts up-to-date 410,000 pixels 1/4" CCD (470,000 pixels for PAL). It ensures outstanding observation with excellent color sensitivity and high resolution. It is elegantly designed using die cast aluminum and has an anti-vandal PC (polycarbonate) dome cover that can withstand impact. With perfectly designed mechanism, it provides waterproof/shockproof functions complying with IP66 requirements. The camera uses a 12x (f=3.6~43.2mm) motorized zoom lens and along with the 10x digital zoom it can actualize 120x zooming. Through perfect setups of the Auto/OnePush/Manual Focus and Lens Block functions, it provides various view angles.

It employs the SONY CCD and utilizes a superior Digital Signal Processor to supply sharp images of high resolution. It also utilizes the low light function that incorporates the AGC function with low-speed shutter, representing clear images even under diffused conditions such as dimly lit parking lots or building interiors. With its perfect white balance function, the camera ensures accurate representation of colors under any setting. Through the use of the MICOM, the camera can be controlled perfectly, and combined with the OSD, the MICOM provides various additional functions.

Its exceptional BLC (Back Light Compensation) function ensures perfect backlight compensation by allowing user to setup and adjust position and size of the monitoring zones for the object darkened by backlighting. SCC-931(P) can be applied for various purposes through its multi-functions such as motion Detection function, a Camera ID indication function that indicates the camera ID up to 20 digits, a PIP function, and a Line-Lock function for vertical adjustment. It can also be remote-controlled via the RS485 function and other various protocol supports.

Both AC24V and DC12V (nonpolar) are available with the use of power adapter.





SCC-931T / SCC-931TP

1/4" High Resolution, Anti-Vandal Dome Color Digital Camera,
Motorized 12x Zoom Lens

Features

- High impact, vandal resistant dome (Shock/water/dust proof : IP66 grade)
- x12 motorized optical zoom with x10 digital zoom
- 1/4" 410,000 (PAL 470,000) super HAD CCD
- Back Light Compensation for the various light conditions
- External synchronization with line-lock
- On-screen menus (Multi-language)
- Remote control: RS485 (Half duplex)
- Built-in ground fault isolation transformer
- DSP (Digital Signal Processor)
- Horizontal resolution (480 TV Lines)
- Motion detection function with alarming output
- Picture in Picture on digital zoom
- Power input (AC24V/DC12V compatible)

Dimensions (unit : mm)



Rear Panel



Specifications

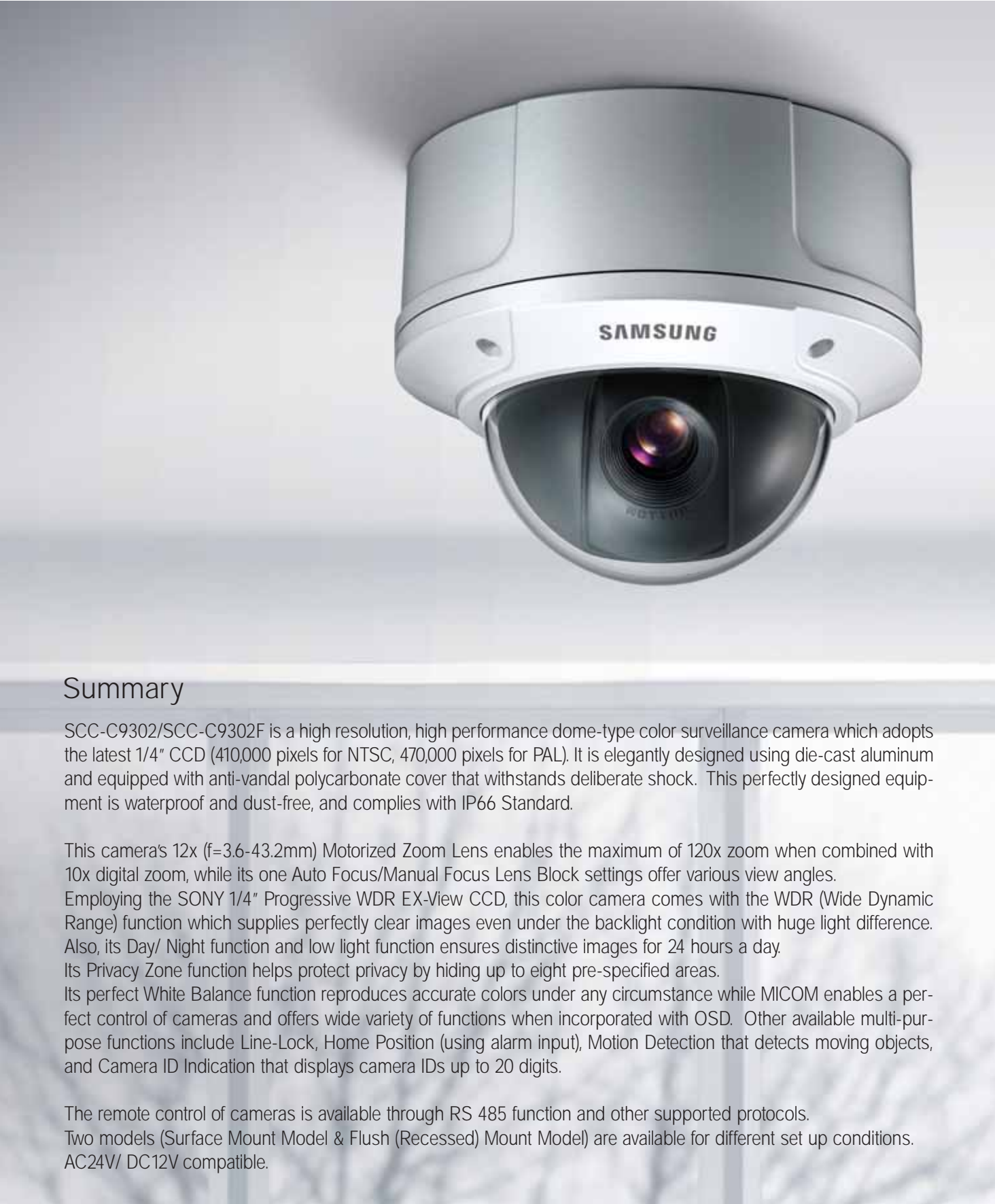
		SCC-931T	SCC-931TP
Camera Type	Color	Color	
Image	Device	Super-HAD CCD	
	Size	1/4 inch	
	Pixels - Total	811 x 508	795 x 596
	Pixels - Effective	768 x 494	752 x 582
Scanning	System	Interlace	
	Horizontal Frequency-Internal Mode	15,734 Hz	15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz	15,625 Hz
	Vertical Frequency-Internal Mode	5994 Hz	50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz	50 Hz
Min. scene Illumination	Color	1 Lux(Sense Up x128 : 0.01)	
PAN/TILT	Range-Panning	360° (Manual)	
	Range-Tilting	90° (Manual)	
Functions	Motion Detection	Off/On	
	D-Zoom	Off ~ x10	
	High Speed Shutter	Off ~ 1/10Ksec	
	Sense Up	Off ~ x128	
	PIP	Off/On	
	BLC	Off/On	
	AGC	Off/On	
	Line Lock	Off/On	
	Anti Vandal	Yes	
	Camera ID	Max 12 Character	
	White Balance	ATW / AWC / MANUAL	
Resolution	Horizontal	480 TV Lines	
	Vertical	350 TV Lines	
Video Output	VBS 10Vp-p	VBS 10Vp-p	
S/N Ratio		52dB (AGC Off)	
Lens	Focal Length	3.6 ~ 43.2 mm	
	Zoom Ratio	x12	
	Aperture Ratio	F1.8(Wide), F2.6(Tele)	
	Viewing Angle-Tele	4° 7'(H) x 3° 6'(V)	
	Viewing Angle-Wide	52° 8'(H) x 40° 3'(V)	
	Lens Drive Type	AI (DC)	
OSD	OSD	Yes	
Alarm	Output	1	
Remote Control	RS485	Yes	
Environmental	Operating Temperature	-10 °C ~ +50 °C	
Conditions	Humidity	Less than 90%	
Power	Power Requirement	AC24V(60Hz)±10% / DC12V+10%/ -5%	AC24V(50Hz)±10% / DC12V+10%/ -5%
	Power Consumption	6W	
	LED Indicator	Yes	
Physical	Dimensions (ø x H)-Net	132(ø) x 96.5(H) mm	
Specification	Weight-Net	1000g	
	Loading Quantity(20/40ft)	4,080 / 8,160	
	Packing	443 x 335 x 160 mm	

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCC-C9302F / SCC-C9302FP

1/4" High Resolution, Anti-Vandal, D/N Dome Color Digital Camera



Summary

SCC-C9302/SCC-C9302F is a high resolution, high performance dome-type color surveillance camera which adopts the latest 1/4" CCD (410,000 pixels for NTSC, 470,000 pixels for PAL). It is elegantly designed using die-cast aluminum and equipped with anti-vandal polycarbonate cover that withstands deliberate shock. This perfectly designed equipment is waterproof and dust-free, and complies with IP66 Standard.

This camera's 12x (f=3.6-43.2mm) Motorized Zoom Lens enables the maximum of 120x zoom when combined with 10x digital zoom, while its one Auto Focus/Manual Focus Lens Block settings offer various view angles. Employing the SONY 1/4" Progressive WDR EX-View CCD, this color camera comes with the WDR (Wide Dynamic Range) function which supplies perfectly clear images even under the backlight condition with huge light difference. Also, its Day/ Night function and low light function ensures distinctive images for 24 hours a day. Its Privacy Zone function helps protect privacy by hiding up to eight pre-specified areas. Its perfect White Balance function reproduces accurate colors under any circumstance while MICOM enables a perfect control of cameras and offers wide variety of functions when incorporated with OSD. Other available multi-purpose functions include Line-Lock, Home Position (using alarm input), Motion Detection that detects moving objects, and Camera ID Indication that displays camera IDs up to 20 digits.

The remote control of cameras is available through RS 485 function and other supported protocols. Two models (Surface Mount Model & Flush (Recessed) Mount Model) are available for different set up conditions. AC24V/ DC12V compatible.





SCC-C9302F / SCC-C9302FP

1/4" High Resolution, Anti-Vandal, D/N Dome Color Digital Camera

Features

- High impact, vandal resistant dome (Shock/water/dust proof : IP66 grade)
- x12 motorized optical zoom with x10 digital zoom
- DSP (Digital Signal Processing) • 1/4" 410,000 (PAL : 470,000) pixels Ex-view CCD
- Horizontal resolution (480 TV Lines)
- WDR function, D/N function • External synchronization with linelock
- Motion detection function with alarming output
- Home position function with alarm input
- On-screen menus (Multi-language) • Remote control: RS485 (Half duplex)
- Power Input (AC24V/DC12V compatible) • Built-in ground fault isolation transformer
- SCC-C9302(P) : Surface mount type, SCC-C9302F(P) Flush (Recessed) mount type

Dimensions (unit : mm)



Specifications

		SCC-C9302(F)	SCC-C9302(F)P
Camera Type	Color	Color	
Image	Device	Ex-View PS CCD	
	Size	1/4 inch	
	Pixels-Total	811 x 508	795 x 596
	Pixels-Effective	768 x 494	752 x 582
Scanning	System	Interlace	
	Horizontal Frequency-Internal Mode	15,734 Hz	15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz	15,625 Hz
	Vertical Frequency-Internal Mode	59.94 Hz	50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz	50 Hz
Min. Scene Illumination	Color	0.002 Lux(15IRE, Sense Up x 128)	
	B/W	0.0002 Lux(15IRE, Sense Up x 128)	
PAN/TILT	Range-Panning	360° (Manual)	
	Range-Tilting	90° (Manual)	
Functions	Day/Night	Color / BW / Auto	
	Motion Detection	Off/On	
	Wide Dynamic Range	Off/On	
	D-Zoom	Off ~ x10	
	High Speed Shutter	Off ~ 1/10Ksec	
	Sens Up	Off ~ x160	
	BLC	Off/On	
	Line Lock	Off/On	
	Anti Vandal	Yes	
	Camera ID	Max 20 Character	
	White Balance	ATW-1 / ATW-2 / AWC / MANUAL	
Resolution	Horizontal	480 TV Lines	
	Vertical	350 TV Lines	
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p	
S/N Ratio	S/N Ratio	52dB	
Lens	Focal Length	3.6 ~ 43.2 mm	
	Zoom ratio	x12	
	Aperture Ratio	F1.8(Wide), F2.6(Tele)	
	Viewing Angle-Tele	4° 7'(H) x 3° 6'(V)	
	Viewing Angle-Wide	52° 8'(H) x 40° 3'(V)	
	Lens Drive Type	AI (DC)	
OSD	OSD	Yes	
Alarm	Input	1	
	Output	1	
Remote Control	RS485	Yes	
Environmental	Operating Temperature	-10° C ~ +50° C	
Conditions	Humidity	Less than 90%	
Power	Power Requirement	AC24V(60Hz)±10% / DC12V±10%/ -5%	
	Power Consumption	6W	
Physical	Dimensions (ø x H)-Net	150(ø) x 121(H) mm	
Specification	Weight-Net	SCC-C9302F : 880g / SCC-C9302 : 1100g SCC-C9302FP : 880g / SCC-C9302P : 1100g	
	Package	SCC-C9302F : 1400g / SCC-C9302 : 1600g SCC-C9302FP : 1400g / SCC-C9302P : 1600g	

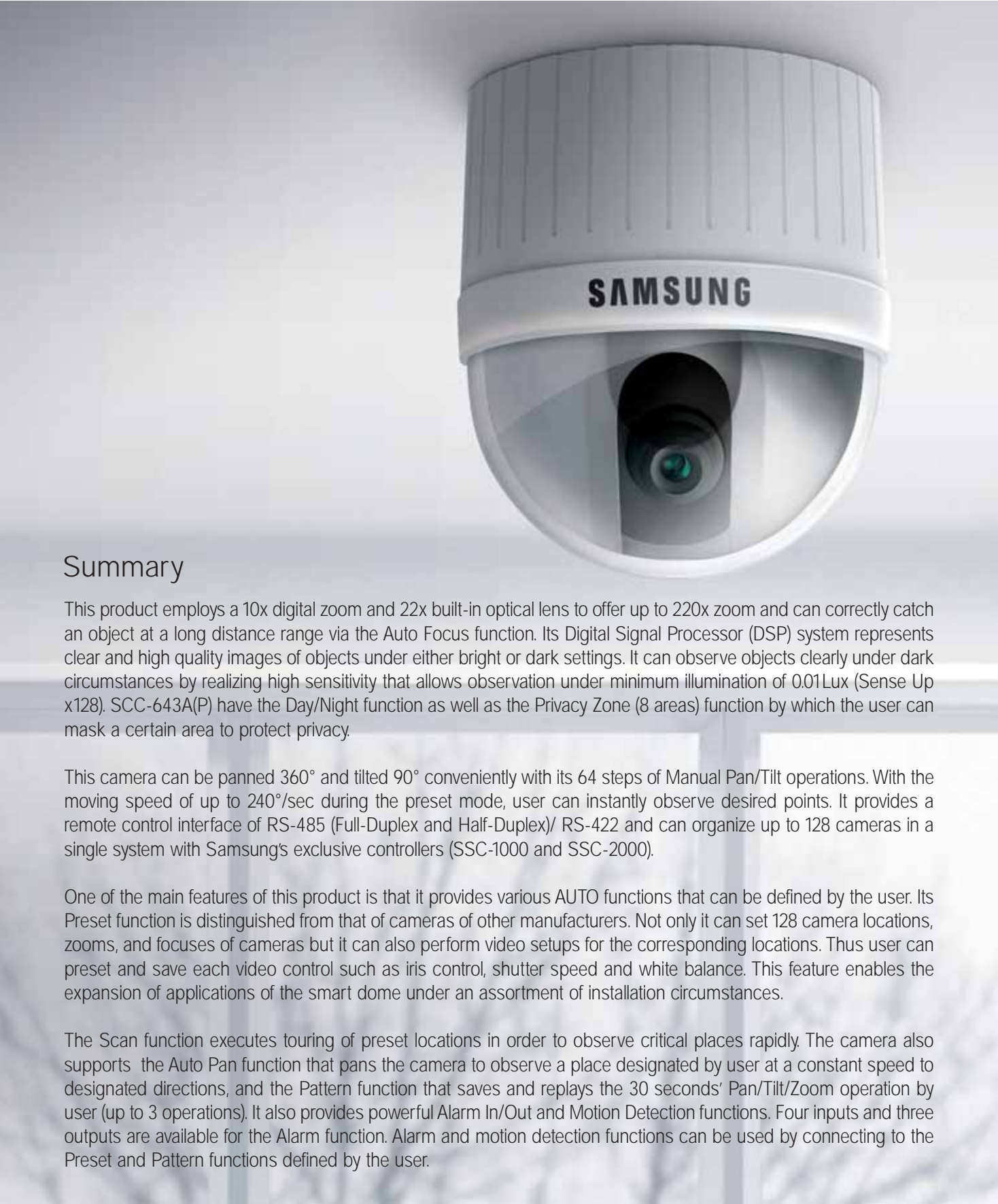
* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCC-641 / SCC-641P

SCC-643A / SCC-643AP

SmartDome Camera



Summary

This product employs a 10x digital zoom and 22x built-in optical lens to offer up to 220x zoom and can correctly catch an object at a long distance range via the Auto Focus function. Its Digital Signal Processor (DSP) system represents clear and high quality images of objects under either bright or dark settings. It can observe objects clearly under dark circumstances by realizing high sensitivity that allows observation under minimum illumination of 0.01Lux (Sense Up x128). SCC-643A(P) have the Day/Night function as well as the Privacy Zone (8 areas) function by which the user can mask a certain area to protect privacy.

This camera can be panned 360° and tilted 90° conveniently with its 64 steps of Manual Pan/Tilt operations. With the moving speed of up to 240°/sec during the preset mode, user can instantly observe desired points. It provides a remote control interface of RS-485 (Full-Duplex and Half-Duplex)/ RS-422 and can organize up to 128 cameras in a single system with Samsung's exclusive controllers (SSC-1000 and SSC-2000).

One of the main features of this product is that it provides various AUTO functions that can be defined by the user. Its Preset function is distinguished from that of cameras of other manufacturers. Not only it can set 128 camera locations, zooms, and focuses of cameras but it can also perform video setups for the corresponding locations. Thus user can preset and save each video control such as iris control, shutter speed and white balance. This feature enables the expansion of applications of the smart dome under an assortment of installation circumstances.

The Scan function executes touring of preset locations in order to observe critical places rapidly. The camera also supports the Auto Pan function that pans the camera to observe a place designated by user at a constant speed to designated directions, and the Pattern function that saves and replays the 30 seconds' Pan/Tilt/Zoom operation by user (up to 3 operations). It also provides powerful Alarm In/Out and Motion Detection functions. Four inputs and three outputs are available for the Alarm function. Alarm and motion detection functions can be used by connecting to the Preset and Pattern functions defined by the user.





SCC-641 / SCC-641P
SCC-643A / SCC-643AP
SmartDome Camera



SCC-C6403 / SCC-C6403P
320x Power Zoom, Cost effective D/N Smart Dome Camera

Features

- 22x (f=3.6~79.2mm) optical lens, and built-in 10x digital zoom lens (Maximum 220x zoom-in, AF function)
- RS-485 (Half duplex • Full duplex) / RS-422 remote control.
- DSP (Digital Signal Processor) IC suitable
- Day & Night function (SCC-643A(P)).
- Minimum illumination of 0.01 Lux (SCC-641(P))
Minimum illumination of 0.01 Lux for Color, 0.003 Lux for B/W(SCC-643A(P))
- 360° endless horizontal rotation and 0~90° vertical rotation. Rapid search at the maximum rotating speed of 240°/sec.
- Motion detection. • Alarm in : 4Ch, Alarm out : 3Ch.
- More than 480 lines of horizontal resolution.
- Preset function (Up to 128 locations).
- Auto functions that can be defined by the user (Preset, auto-pan, and scan).
- Privacy zone function for 8 locations (SCC-643A(P)).

Dimensions (unit : mm)



Rear Panel



Specifications

		SCC-C641	SCC-C641P	SCC-643A	SCC-643AP
Camera Type	Color	Color			
Image	Device	Super-HAD CCD			
	Size	1/4 inch			
	Pixels-Total	811 x 508	795 x 596	811 x 508	795 x 596
	Pixels-Effective	768 x 494	752 x 582	768 x 494	752 x 582
Scanning	System	Interlace			
	Horizontal Frequency-Internal Mode	15,734 Hz	15,625 Hz	15,734 Hz	15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz	15,625 Hz	15,750 Hz	15,625 Hz
	Vertical Frequency-Internal Mode	5994 Hz	50Hz	5994 Hz	50Hz
	Vertical Frequency-Line-lock Mode	60 Hz	50 Hz	60 Hz	50 Hz
Min. Scene Illumination	Color	0.3 Lux (Sense Up X4 30IRE)	0.01 Lux (Sense Up X128)	0.3 Lux (Sense Up X4 30IRE)	0.01 Lux (Sense Up X128)
PAN/TILT	B/W	-	-	0.003 Lux	0.003 Lux
	Speed-Manual Pan	08° /sec ~ 90° /sec			
	Speed-Preset Pan	240° /sec			
	Speed-Manual Tilt	08° /sec ~ 45° /sec			
	Speed-Preset Tilt	150° /sec			
	Range-Panning	360(endless)			
	Range-Tilting	0° /sec ~ 90° /sec			
	Number of Scan	1			
	Number of Auto PAN	1			
	Number of Preset	128			
	Number of Pattern	3			
Functions	Number of Privacy Zone	-	-	-	8
	Day/Night	-	-	-	Yes
	Motion Detection	Yes			
	Wide Dynamic Range	-			
	D-Zoom	Yes(2X ~ 10X)			
	High Speed Shutter	Yes(OFF ~ 1/10K)			
	Sense Up	Yes(X2 ~ X128)			
	PIP	Off/On			
	BLC	Off/On			
	AGC	Off/On			
	Line Lock	Off/On			
	Camera ID	Max 12 Character			
	White Balance	ATW / AWC / MANUAL			
Resolution	Horizontal	480 TV Lines			
	Vertical	350 TV Lines			
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p			
S/N Ratio	52	52 dB			
Lens	Focal Length	36 ~ 79.2 mm			
	Zoom ratio	22X			
	Aperture Ratio	F16(Wide), F3.8(Tele)			
	Viewing Angle-Tele	2° 3'(H) x 1° 7'(V)			
	Viewing Angle-Wide	47° 9'(H) x 36° 9'(V)			
OSD	OSD	Yes			
Alarm	Input	4			
	Output	3			
Remote Control	RS485/RS-422	RS485 Half / Full Duplex, RS-422			
Environmental	Operating Temperature	-10 °C ~ +50 °C			
Conditions	Humidity	Less than 90%			
Power	Power Requirement	AC24V(60Hz) ±10%	AC24V(50Hz) ±10%	AC24V(60Hz) ±10%	AC24V(50Hz) ±10%
	Power Consumption	18W			
	LED Indicator	Yes			
Physical	Dimensions -Net	159.5(φ) x 177(H)			
Specification	Weight-Net	1,700g			
	Loading Quantity(20/40ft)	756 / 1,776			
	Packing	378 x 308 x 275 mm			

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

SCC-C6403(P) is one of the best cameras available from Samsung in terms of zoom. With 32x optical lens, a maximum of 320x zoom is available when combined with 10x digital zoom and it adopts the SONY 1/4" IT Type S-HAD CCD.

Its quick and accurate PAN/ TILT function enables users to move around freely within the screen and to instantly observe desired points.

It automatically switches to B/W mode when the image is hardly distinct during night or when sufficient light is unavailable.

It is the user-friendly surveillance camera that comes with various useful functions such as White Balance function that ensures accurate representation of colors under any setting, and Auto-Focus function that automatically adjusts focus in response to the movement of the object.





SCC-C6403 / SCC-C6403P

320x Power Zoom, Cost effective D/N Smart Dome Camera

Features

- x32 motorized optical zoom with x10 digital zoom
- 1/4 Inch IT Type S-HAD CCD
- DSP (Digital Signal Processing)
- Motion detection function with alarming output
- Inner rotor BLDC motor
- Minimum scene illumination (Color : 0.005Lux, Sens up X128)
- High-speed PAN/TILT (400 ° /sec)
- Horizontal Resolution (480 TV lines)
- Day/Night function
- On-screen menus (Multi-language)
- More than 480 lines of horizontal resolution
- 4 alarm inputs, 3 alarm outputs

Dimensions (unit : mm)



Specifications

		SCC-C6403	SCC-C6403P
Camera Type	Color		Color
Image	Device		Super-HAD CCD
	Size		1/4 inch
	Pixels-Total	811 x 508	795 x 596
	Pixels-Effective	768 x 494	752 x 582
Scanning	System		Interlace
	Horizontal Frequency-Internal Mode	15,734 Hz	15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz	15,625 Hz
	Vertical Frequency-Internal Mode	5994 Hz	50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz	50 Hz
Min. Scene Illumination	Color	015 Lux(Sense Up x 4, 15IRE)	0.005Lux(Sense Up x 128)
PAN/TILT	B/W	0.015 Lux(Sense Up x 4, 15IRE)	0.0005Lux(Sense Up x 128)
	Speed-Manual Pan		01° /sec~180° /sec(64Step)
	Speed-Preset Pan		400° /sec(max)
	Speed-Manual Tilt		01° /sec~90° /sec(64Step)
	Speed-Preset Tilt		200° /sec(max)
	Range-Panning		350° (Non-Endless)
	Range-Tilting		0° ~ 90°
	Number of Auto PAN		4 ea
	Number of Preset		128 ea
	Number of Pattern		3 ea
Functions	Day/Night		Color / BW / Auto
	Motion Detection		Off/On
	D-Zoom		Off ~ x10
	High Speed Shutter		Off ~ 1/10Ksec
	Sens Up		Off ~ x128
	BLC		Off/On
	AGC		Off / Low / High
	Line Lock		On/Off
	Camera ID		Off/On
	White Balance		ATW-1 / ATW-2 / AWC / MANUAL
Resolution	Horizontal		480 TV Lines
	Vertical		350 TV Lines
Video Output	VBS 10Vp-p		VBS 10Vp-p
S/N Ratio	S/N Ratio		50dB
Lens	Focal Length		3.55 ~ 113 mm
	Zoom ratio		32X
	Aperture Ratio		F1.69(Wide), F4.17(Tele)
	Viewing Angle-Tele		1° 78'(H) x 1° 34'(V)
	Viewing Angle-Wide		41° 5'(H) x 43° 01'(V)
OSD	OSD		Yes
Alarm	Input		4
	Output		3
Remote Control	RS485		Yes
Environmental	Operating Temperature		-10° C ~ +50° C
Conditions	Humidity		Less than 90%
Power	Power Requirement	AC24V(60Hz) ±10%	AC24V(50Hz) ±10%
	Power Consumption		18W
	LED Indicator		Yes
Physical	Dimensions (WxHxD)-Net		159.6(ø) x 177(H) mm
Specification	Weight-Net		1700g
	Loading Quantity(20/40ft)		912 / 1824
	Package		382 x 260 x 307 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCC-C6405 / SCC-C6405P

220x Power Zoom, WDR, D/N Smart Dome Camera



Summary

SCC-C6405(P) is one of the best cameras available from Samsung in terms of zoom. With 22x optical lens, a maximum of 220x zoom is available when combined with 10x digital zoom.

Employing the latest SONY 1/4 inch WDR Ex-view HAD CCD, a sharper image will be available even when surrounding is too dark or too bright. Its quick and accurate PAN/ TILT function enables users to move around freely within the screen and to instantly observe desired points. Also, it automatically switches to B/W mode when the image is hardly distinct during night or when sufficient light is unavailable.

Privacy-Zone option enables to hide a pre-specified area to protect privacy, and RS485 Cable Remote Control makes it easier for users to operate the cameras.

It is the user-friendly surveillance camera that comes with various useful functions such as White Balance function that ensures accurate representation of colors under any setting, and Auto-Focus function that automatically adjusts focus in response to the movement of the object.





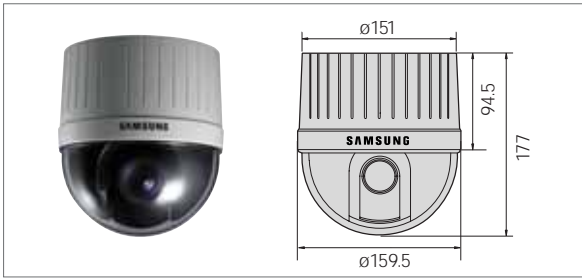
SCC-C6405 / SCC-C6405P

220x Power Zoom, WDR, D/N Smart Dome Camera

Features

- x22 motorized optical zoom with x10 digital zoom
- 1/4Inch WDR Ex-view HAD CCD
- DSP (Digital Signal Processing)
- External eynchronization with linelock
- On-screen menus (multi-language)
- Minimum scene illumination (color : 0.005Lux,sens up X160)
- High-speed PAN/TILT (400 ° /sec)
- Horizontal resolution (480 TV Lines)
- WDR function
- Motion detection function with alarming output
- Innor rotor BLDC motor
- 4 alarm inputs, 3 alarm outputs
- Privacy zone
- Day/Night function

Dimensions (unit : mm)



Specifications

		SCC-C6405	SCC-C6405P
Camera Type	Color		Color
	Device		Ex-View PS CCD
Image	Size		1/4 inch
	Pixels-Total	811 x 508	795 x 596
Scanning	Pixels-Effective	768 x 494	752 x 582
	System		Interlace
Min. Scene Illumination	Horizontal Frequency-Internal Mode	15.734 Hz	15.625 Hz
	Horizontal Frequency-Line-lock Mode	15.750 Hz	15.625 Hz
PAN/TILT	Vertical Frequency-Internal Mode	59.94 Hz	50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz	50 Hz
Speed-Manual Pan	Color	0.2 Lux(Sense Up x 4), 0.005Lux(Sense Up x 160)	
	B/W	0.07 Lux(Sense Up x 4), 0.0002Lux(Sense Up x 160)	
Speed-Manual Tilt	Speed-Manual Pan	0.1° /sec~180° /sec(64Step)	400° /sec(max)
	Speed-Preset Pan		0.1° /sec~90° /sec(64Step)
Range-Panning	Speed-Manual Tilt		200° /sec(max)
	Speed-Preset Tilt		360° /sec(Endless)
Range-Tilting	Range-Panning		0° ~180°
	Range-Tilting		4 ea
Number of Auto PAN	Number of Auto PAN		128 ea
	Number of Preset		3 ea
Number of Pattern	Number of Pattern		8 ea
	Number of Privacy Zone		Color / BW / Auto
Day/Night	Day/Night		Off/On
	Motion Detection		Off/On
Wide Dynamic Range	Wide Dynamic Range		Off ~ x10
	D-Zoom		Off ~ 1/10Ksec
High Speed Shutter	High Speed Shutter		Off ~ x160
	Sens Up		Off/On
BLC	BLC		Off / Low / High
	AGC		On/Off
Line Lock	Line Lock		Off/On
	Camera ID		ATW1 / ATW-2 / AWC / MANUAL
White Balance	White Balance		480 TV Lines
	Horizontal		350 TV Lines
Vertical	Vertical		VBS 10Vp-p
	VBS 10Vp-p		50dB
S/N Ratio	S/N Ratio		36 ~ 79.2 mm
	Focal Length		32X
Zoom ratio	Zoom ratio		F16(Wide), F3.8(Tele)
	Aperture Ratio		2' 3"(H) x 1' 7"(V)
Viewing Angle-Tele	Viewing Angle-Tele		47' 9"(H) x 36' 9"(V)
	Viewing Angle-Wide		Yes
OSD	OSD		4
	Input		3
Alarm	Output		Yes
	RS485		10° C ~ +50° C
Remote Control	Operating Temperature		Less than 90%
	Humidity		AC24V(60Hz) ±10%
Environmental Conditions	Power Requirement		AC24V(50Hz) ±10%
	Power Consumption		18W
Power	LED Indicator		Yes
	Dimensions (WxHxD)-Net		159.6(φ) x 177(H)mm
Physical Specification	Weight-Net		1700g
	Loading Quantity(20/40ft)		912 / 1824
Package	Package		382 x 260 x 307 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCC-C6407 / SCC-C6407P

320x Power Zoom, WDR, D/N Smart Dome Camera



Summary

SCC-C6407(P) is one of the best cameras available from Samsung in terms of zoom. With 32x optical lens, a maximum of 320x zoom is available when combined with 10x digital zoom.

Employing the latest SONY 1/4 inch WDR Ex-view HAD CCD, a sharper image will be available even when surrounding is too dark or too bright. Its quick and accurate PAN/ TILT function enables users to move around freely within the screen and to instantly observe desired points. Also, it automatically switches to B/W mode when the image is hardly distinct during night or when sufficient light is unavailable.

Privacy-Zone option enables to hide a pre-specified area to protect privacy, and RS485 Cable Remote Control makes it easier for users to operate the cameras.

It is the user-friendly surveillance camera that comes with various useful functions such as White Balance function that ensures accurate representation of colors under any setting, and Auto-Focus function that automatically adjusts focus in response to the movement of the object.





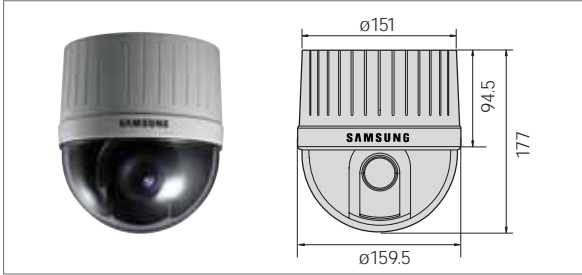
SCC-C6407 / SCC-C6407P

320x Power Zoom, WDR, D/N Smart Dome Camera

Features

- x32 motorized optical zoom with x10 digital zoom
- 1/4Inch WDR Ex-view HAD CCD
- DSP (Digital Signal Processing)
- External eynchronization with linelock
- On-screen menus (multi-language)
- Minimum scene illumination (color : 0.002Lux,sens up X160)
- High-speed PAN/TILT (400 ° /sec)
- Horizontal resolution (480 TV Lines)
- WDR function
- Motion detection function with alarming output
- Innor rotor BLDC motor
- 8 alarm inputs, 3 alarm outputs
- Privacy zone
- Day/Night function

Dimensions (unit : mm)



Specifications

		SCC-C6407	SCC-C6407P
Camera Type	Color		Color
	Device		Ex-View PS CCD
Image	Size		1/4 inch
	Pixels-Total	811 x 508	795 x 596
Scanning	Pixels-Effective	768 x 494	752 x 582
	System		Interlace
Min. Scene Illumination	Horizontal Frequency-Internal Mode	15,734 Hz	15,625 Hz
	Horizontal Frequency-Line-lock Mode	15,750 Hz	15,625 Hz
PAN/TILT	Vertical Frequency-Internal Mode	59.94 Hz	50 Hz
	Vertical Frequency-Line-lock Mode	60 Hz	50 Hz
Functions	Color	0.009 Lux(Sense Up x 4, 15IRE)	0.002Lux(Sense Up x 128)
	B/W	0.009 Lux(Sense Up x 4, 15IRE)	0.0002Lux(Sense Up x 128)
Resolution	Speed-Manual Pan		01' /sec~180' /sec(64Step)
	Speed-Preset Pan		400' /sec(max)
Video Output	Speed-Manual Tilt		01' /sec~90' /sec(64Step)
	Speed-Preset Tilt		200' /sec(max)
S/N Ratio	Range-Panning		360' /sec(Endless)
	Range-Tilting		0' ~180'
Lens	Number of Auto PAN		4 ea
	Number of Preset		128 ea
OSD	Number of Pattern		3 ea
	Number of Privacy Zone		8 ea
Alarm	Day/Night		Color / BW / Auto
	Motion Detection		Off/On
Remote Control	Wide Dynamic Range		Off/On
	D-Zoom		Off ~ x10
Environmental Conditions	High Speed Shutter		Off ~ 1/10Ksec
	Sens Up		Off ~ x160
Power	BLC		Off/On
	AGC		Off / Low / High
Physical Specification	Line Lock		On/Off
	Camera ID		Off/On
Package	White Balance		ATW-1 / ATW-2 / AWC / MANUAL
	Horizontal		480 TV Lines
	Vertical		350 TV Lines
	VBS 10Vp-p		VBS 10Vp-p
	S/N Ratio		50dB
	Focal Length		3.55 ~ 113 mm
	Zoom ratio		32X
	Aperture Ratio		F1.69(Wide), F4.17(Tele)
	Viewing Angle-Tele		1' 78'(H) x 1' 34'(V)
	Viewing Angle-Wide		41' 5'(H) x 43' 01'(V)
	OSD		Yes
	Input		8
	Output		3
	RS485		Yes
	Operating Temperature		-10' C ~ +50' C
	Humidity		Less than 90%
	Power Requirement	AC24V(60Hz) ±10%	AC24V(50Hz) ±10%
	Power Consumption		22W
	LED Indicator		Yes
	Dimensions (WxHxD)-Net		159.6(ø) x 177(H)mm
	Weight-Net		1700g
	Loading Quantity(20/40ft)		912 / 1824
	Package		382 x 260 x 307 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCC-C6475 / SCC-C6475P

IP Smart Dome Camera with WDR, X22 Zoom and Day&Night



Summary

SCC-6475 is an IP dome camera based on Embedded OS, having the same function with SCC-6405 but being available for connection in any environment among ADSL, Cable modem, and LAN.

Users will be provided with an exclusive viewer manufactured by SAMSUNG. This viewer supports not only Remote Monitoring and Pan/Tilt/Zoom In/Out but also customizing logos and banners to the user.

The protocols to be supported include DDNS, DHCP, TCP/IP, UDP/IP, HTTP, FTP, SMTP, RTP/RTSP, NTP, and PPPoE. The maximum transmission speed reaches 30ips and recording may continue for as long as 10 min in a local PC.

SCC-6475 provides a variety of housings and mounts depending on the installation environment, having installation accessories such as Indoor Housing, Outdoor Housing, Wall Mount Adaptor, Pole Mount Adaptor, Corner Mount Adaptor, Ceiling Mount Adaptor, and Ceiling Mount Bracket.





SCC-C6475 / SCC-C6475P

IP Smart Dome Camera with WDR, X22 Zoom and Day&Night

Features

- 1/4" Ex-view P/S 410K CCD
- Built-in X22 optical zoom lens (X10 D-Zoom)
- 360° endless PAN (Slip-ring)
- Remote control : RS-485, RS-422
- 10/100 base-T (RJ-45)
- Support various network protocol(HTTP, FTP, SMTP, TCP, UDP, IP, DHCP, DNS, ARP, NTPPPPoE, DDNS, RTP, RTSP)
- 480 TV lines of horizontal resolution
- Sensitivity : 0.2 lux (X4 sens-up, color)
- Preset speed : pan (400° /sec), tilt (200° /sec)
- MPEG4 and MJPEG, max. 25fps (@VGA)

Dimensions (unit : mm)



Rear Panel



Specifications

SCC-C6475(P)		
Camera Section		Same as SCC-C6405(P)
Pan/Tilt Section		Same as SCC-C6405(P)
Network Section		
Environment	Server	OS
	Client	OS
		CPU
		Memory
		Graphic Accelerator
Browser	Web browser	Internet explorer 5.0 higher
Compression	MPEG4 / MJPEG	do not support simultaneous operation
Hardware	Flash memory	8 Mbyte
	OS	embedded Linux
	SDRAM	32Mbyte
	Power Source	84V DC500mA (using the supplied AC adapter)
	Ambient Operating Temperature	0C - +40C (32F - 104F) degree
	Dimensions	93 mm (H) x 61 mm (W) x 43 mm (D)
Network	Ethernet	10/100BaseT
	Network Protocol	Network Protocol
		DDNS
		ADSL
		Cable Modem
		Video transfer protocol
Video Resolution	NTSC	VGA
	PAL	VGA
Video Quality	Quality	High, Medium, Low
Performance	MJPEG	VGA
	MPEG4	VGA
Connection Users	MJPEG	Multicast
	MPEG4	Multicast
Alarm Control		MJPEG only support (MPEG4 is not supported)
	FTP, SMTP	On alarm, Image will be sent by FTP, SMTP
	Pre-Alarm	Max Total 60 images
	Post-Alarm	Max Total 60 images
Recording	Recording	Max 10min recordcan be recorded when PC Hard Disk
		available space is bigger than 20% of total space
IP Notification	FTP, SMTP	The ip address is sent by FTP and (or) SMTP, when a dynamic ip is received
IP Installer	IP address Installation	IP installation function (XP, win 2000 support)
Software Upgrade	Firmware Upgrade	Firmware upgrade by web browser
Access Level	Login Success Level	Guest, Administrator, Operator, User
Security	IP Filtering	IP filtering
Time Setting	Time Setting	Setting by a NTP server on the internet
PTZ Control	Pan/Tilt/Zoom control	Auto pan, preset, scan function support
Sequence	Sequence	1CH/ 4Ch sequence support
Language	Language	English Only
ETC Section		
Power Source		24 V AC, 60 Hz or 50 Hz
Power Consumption		20 W
Ambient Operating Temperature		-10°C to +50°C (14°F to 122°F)
Dimensions		DOME : 147 (ø), Outline : 1596 (ø) x 177(H) (Adapter:23.5(H)mm)
Weight		approx. 1.7 kg

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SSC-1000(P)

SmartDome Controller



Summary

SSC-1000 can be used to control SCC-641/643, SCC-931T and SCC-421A IC series (Intelligent Cameras). SSC-1000 features a backlight LCD, a four-direction joystick, camera call up and camera programming buttons.

Up to eight SSC-1000 devices may be used in the system configuration. SSC-1000 can control up to 32 IC series cameras or SDM-160 multiplexers utilizing RS-485 protocol.





SSC-1000(P)

SmartDome Controller



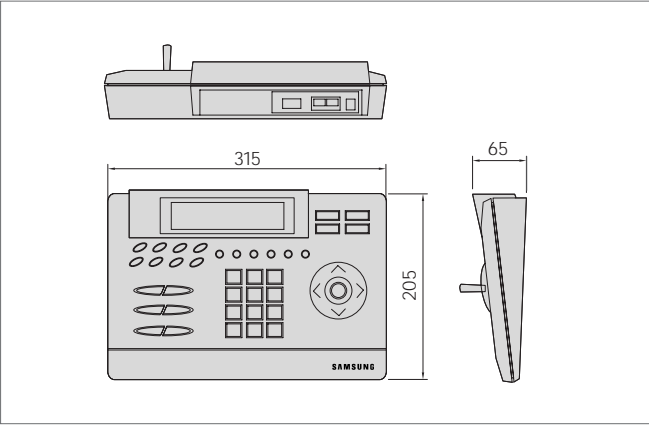
SSC-2000(P)

Touch Screen System Keyboard

Features

- Long distance control : Up to 1.2km on RS-485 communication.
- IC (Intelligent Camera) series controller for :
 - SCC-641 - Motorized speed dome
 - SCC-643A - Motorized Day/Night speed dome
 - SCC-C4201A - Motorized zoom camera
 - SCC-931T - Armored motorized zoom camera
- Controls up to 128 smart dome cameras or SDM-160 multiplexers
- Up to 8 SSC-1000 controllers in each system

Dimensions (unit : mm)



Rear Panel



Specifications

SSC-1000(P)		
Communication	Interface Type	RS-485
	Connector Type	Modular Type x 2, D-Sub x 1
	Baud Rate	4,800/9,600/19,200/38,400 bps
Display	LCD	20 x 4 line
	LED	Menu, Preset, Pattern, Scan, Auto Pan
Switching & Control	Auto Pan, Reset	
	Video Switching	
	Sequence, Tour, Salvo	
	Pan/Tilt & Lens Control	Pan left/right
		Tilt up/down
		Iris open/ close
		Focus far/ near
		Zoom tele/wide
		Preset, Auto pan, Scan, Pattern
	External Machinery Control	
	Aux1, Aux2, Aux3, Aux4	
Power Source	DC 9V, 500mA	
Dimensions (W x H x D)	315 x 65 x 205 mm	
Weight	Approx. 1.1Kg (excluding packing materials)	
RS-485 Connector	No 3(Yellow) : DATA "+", No 5(Red) : DATA "-"	
D-SUB Connector	No 2 : DATA "+", No 3 : DATA "-"	
Packing	502 x 272 x 190 mm	



Summary

SSC-2000, system keyboard, is a controller that controls Cameras, DVR, Multiplexer and other devices by using RS-485 communication. it is easy to operate with a user-friendly on-screen menu, touch screen, and robust keys. The 3-axis joystick supports control of PTZ functions. This keyboard can control up to 256 cameras and other serially controlled devices such as mutiplexers and DVRs. Maximum 32 keyboards can be connected simultaneously and controlled from different places.



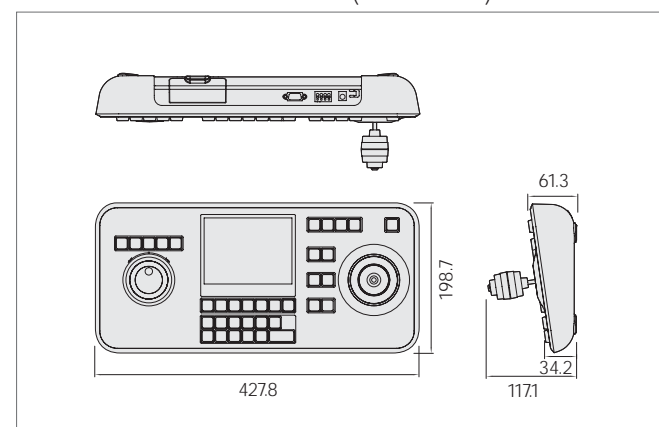
SSC-2000(P)

Touch Screen System Keyboard

Features

- Long distance control : Up to 1.2km on RS-485 communication.
- Maximum 32 keyboards can be connected simultaneously
- 5.7" graphic panel
- Durable 3-axis PTZ joystick
- User friendly touch screen interface
- Camera, DVR and multiplexer selection
- Jog/Shuttle controls

Dimensions (unit : mm)



Rear Panel



Specifications

SSC-2000(P)		
Interface Type (RS-485)	Connector Type	4P Terminal Type
	Port	1 Port
	Baud Rate	4800/9600/19200/38400bps
Interface Type (RS-232C)	Connector Type	D-SUB 9P
	Port	1 Port
	Baud Rate	600/1200/2400/4800/9600/19200/38400/57600bps
LCD Panel	5.7" Graphic Panel(320 x240 line) + Touch Panel	
	Viewing Angle	Left(39°), Right(32°), Rear(10°), Front(30°)
	Inclination Angle	Min(8.4°), Max(15.9°)
LED	Monitor, Camera, Multiplexer, DVR	
	PAN	Left/Right
	Tilt	Up/Down
	Iris	Close/Open
	Focus	Near/Far
	Zoom	Tele/Wide
	Preset, Pattern, Auto Pan, Scan	
DVR Control	SW	RW, Stop, Play, FF, REC.
	Jog/Shuttle	Forward/Reverse, Play/Reverse Play/FF/RW
Power	DC12V, 600mA	
Power Consumption	BELOW 3W	
Dimensions(W x D x H)	Net	427.8 x 198.7 x 117.1
	Package	496 x 206 x 288 mm
Weight	Net	1.36Kg
	Package	2.6Kg
Packing	502 x 272 x 190 mm	

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model

SmartDome & Dome Camera Accessory

Comparison Chart by Model

SHG-120 (Indoor Housing)

Dimension (unit :mm)

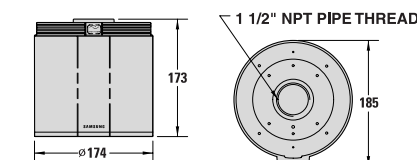


Summary

SHG-120 is applied to the installation of Smartdome camera on the wall and ceiling.

Features

- Aluminum Body



SHG-220 (Outdoor Housing)

Dimension (unit :mm)

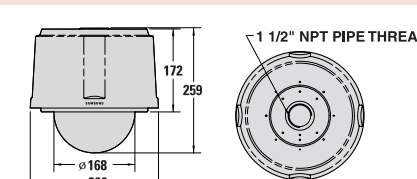


Summary

SHG-220 is applied to the installation of Smartdome camera outside the wall and ceiling. It was designed to tolerate harsh environment and earned IP 66 standards certification.

Features

- Built-in Fan & Heater
- Aluminum Body
- Clear Dome : high impact polycarbonate
- IP 66 Certification



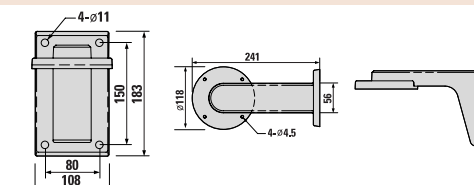
SADT-100WM/101WM/102WM (Wall Mount Adaptor)

Dimension (unit :mm)



Summary

SADT-100WM is applied when SHG-120 (Indoor housing) of SHG-220 (Outdoor housing) is installed on the outside/inside the wall. SADT-101WM/102WM are applied when SCC-931T/9302(F) (Anti-Vandal camera) are installed on the outside/inside the wall.



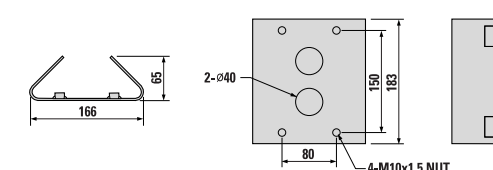
SADT-100PM (Pole Mount Adaptor)

Dimension (unit :mm)



Features

- Indoor or Outdoor Applications
- Supports up to 88 Pounds(40Kg)
- Metal body



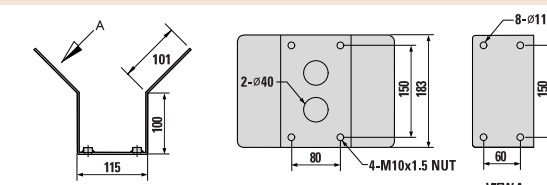
SADT-110CM (Corner Mount Adaptor)

Dimension (unit :mm)



Features

- Indoor or Outdoor Applications
- Supports up to 97 Pounds(44Kg)
- Metal body



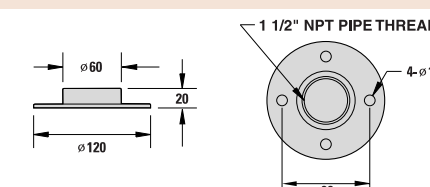
SADT-100CM (Ceiling Mount Adaptor)

Dimension (unit :mm)



Features

- Metal body
- Indoor or Outdoor Applications
- Supports up to 70 Pounds(32Kg)
- Rugged Construction



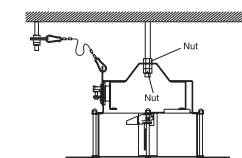
SBR-100DCM (Ceiling Mount Bracket)

Dimension (unit :mm)



Features

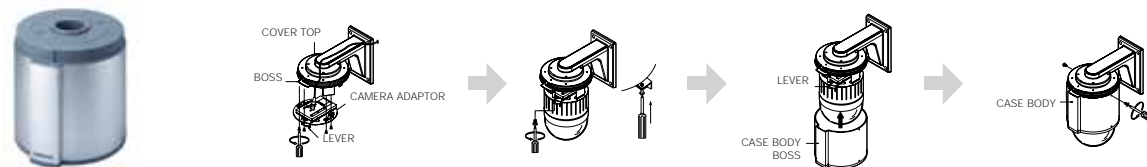
- Supports up to 35 Pounds(16Kg)
- Rugged Construction
- Metal body



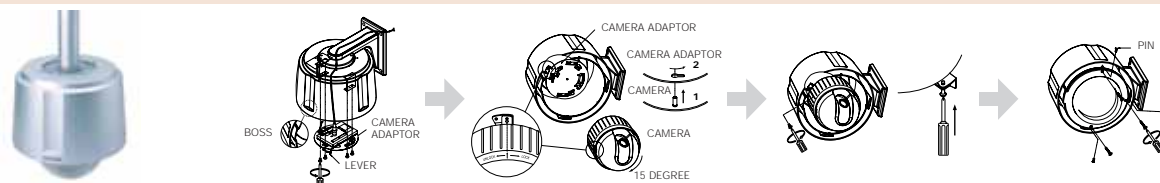
SmartDome & Dome Camera Accessory

Installation

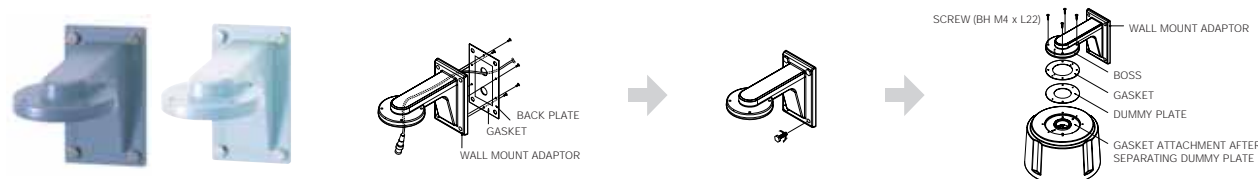
SHG-120



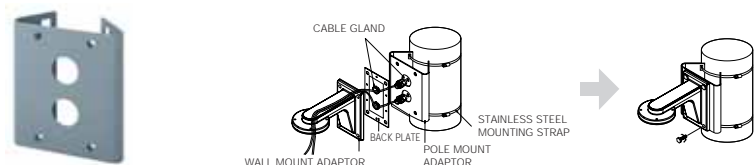
SHG-220



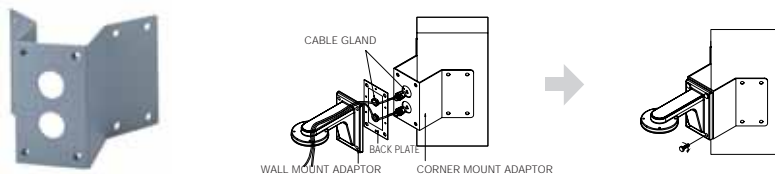
SADT-100WM/101WM



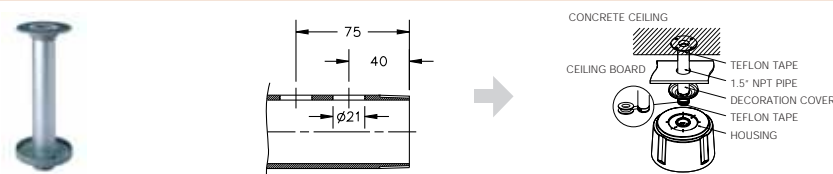
SADT-100PM



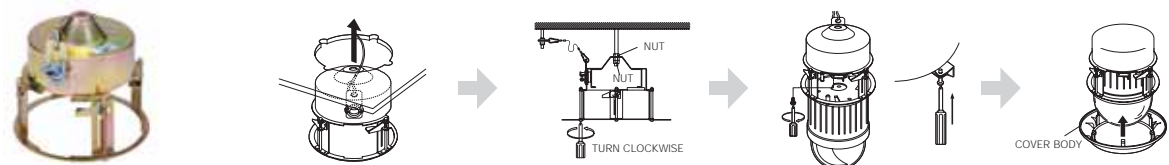
SADT-110CM



SADT-100CM



SBR-100DCM



MONITOR

Natural image, clear definition



Comparison
Chart by Model

LCD Monitor

SMT-171(P)/SMT-190(P)

Other Monitor

SMC-150F(P)/SMC-152F(P)

SMC-210FP/211 F(P)/212FP

DVR

Comparison Chart by Model

Models	SHR-2040(P)	SHR-2042(P)	SHR-2080(P)	SHR-2082(P)
Spec				
HDD Basic	160GB	160GB	160GB	160GB
Max,Expansion	250GB x 2	250GB x 3	250GB x 4	250GB x 3
Display Speed(ips)	100(SHR-2040P) 120(SHR-2040)	100(SHR-2042P) 120(SHR-2042)	200(SHR-2080P) 240(SHR-2080)	200(SHR-2082P) 240(SHR-2082)
Remote Control	RS-485(P/T/Z) LAN	RS-485(P/T/Z) LAN	RS-485(P/T/Z) LAN	RS-485(P/T/Z) LAN
Data Back up	USB 2.0	CD-RW USB 2.0	USB 2.0	CD-RW USB 2.0
Multiplex function	Triplex	Triplex	Triplex	Triplex
Power Requirements	DC12V, 50/60Hz	AC100~240V, 50/60Hz	AC100~240V, 50/60Hz	AC100~240V, 50/60Hz
Weight	33kg	65kg	69kg	78kg
Dimensions(WxHxD)	215 x 88 x 337 mm	430 x 88 x 400 mm	430 x 88 x 400 mm	430 x 88 x 400 mm

Models	SHR-2160(P)	SHR-2162(P)	SHR-4081(P)	SHR-4160(P)
Spec				
HDD Basic	160GB	160GB	160GB	160GB
Max,Expansion	250GB x 4	250GB x 3	250GB x 4	250GB x 4
Display Speed(ips)	400(SHR-2160P) 480(SHR-2160)	400(SHR-2162P) 480(SHR-2162)	200(SHR-4081P) 240(SHR-4081)	400(SHR-4160P) 480(SHR-4160)
Remote Control	RS-485(P/T/Z) LAN	RS-485(P/T/Z) LAN	RS-485(P/T/Z) LAN	RS-485(P/T/Z) LAN
Data Back up	USB 2.0	CD-RW USB 2.0	USB 2.0	IEEE 1394 Interface USB 2.0
Multiplex function	Triplex	Triplex	Triplex	Triplex
Power Requirements	AC100~240V, 50/60Hz	AC100~240V, 50/60Hz	AC100~240V, 50/60Hz	AC100~240V, 50/60Hz
Weight	69kg	78kg	65kg	65kg
Dimensions(WxHxD)	430 x 88 x 400 mm	430 x 88 x 400 mm	430 x 88 x 400 mm	430 x 88 x 400 mm

Models	SPR-7116(P)	SPR-7416(P)
Spec		
Video Input	16CH Composite Video(NTSC/PAL)	16CH Composite Video(NTSC/PAL)
Video Output	RGB(PC) : 1CH, Composite(Normal Monitor) : 1CH	RGB(PC) : 1CH, Composite(Normal Monitor) : 1CH
Recording Speed	Max. 120/100 ips(NTSC/PAL)	Max. 480/400 ips(NTSC/PAL)
Display Mode	1, 4, 9, 16 split screen, full screen, 16CH real time monitoring 480/400 ips (NTSC/PAL)	1, 4, 9, 16 split screen, full screen, 16CH real time monitoring 480/400 ips (NTSC/PAL)
Data backup	Auto/Manual back up through HDD, CD-RW, DVD, Network Drive Auto/Manual back up through HDD, CD-RW, DVD, Network Drive	Auto/Manual back up through HDD, CD-RW, DVD, Network Drive Auto/Manual back up through HDD, CD-RW, DVD, Network Drive
Power Requirements	AC100~240V, 5Amax, 60Hz	AC100~240V, 5Amax, 60Hz
Weight	Approx.18Kg	Approx.18Kg
Dimension(WxHxD)	431(W)x177(H)x459(D)	431(W)x177(H)x459(D)



SHR-2040(P)

4 Channel Standalone Digital Video Recorder



Summary

SHR-2040(P) is a 4-channel MPEG4 real time Digital Video Recorder capable of 120(100)ips recording rate in CIF mode. It can also record the 4-channel synchronized audio and various kinds of resolution (CIF/Half D1).

- * CIF : 352x240(352x288)
- Half D1 : 720x240(720x288)

Each channel provides various recording rates to save HDD consumption. External interface method is USB 2.0 (Front:1, Rear:1).



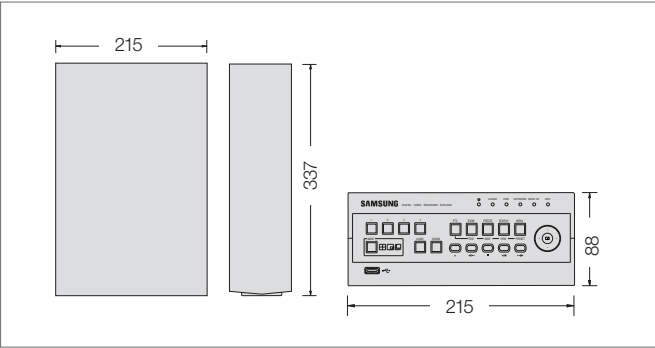
SHR-2040(P)

4 Channel Standalone Digital Video Recorder

Features

- 4 Channel video & audio realtime recording capability.
- High picture quality : MPEG4
- Remote monitoring and control through network (LAN)
- Various recording features (Normal, schedule, motion, alarm)
- Recording during replay (Triplex)
- Various N/W environments support (LAN : Static/Dynamic, ADSL : Static/Dynamic (PPPoE))
- USB2.0 Interface : USB memory/USB external HDD/external CD-RW, DVD-RW backup

Dimensions (unit : mm)



Rear Panel



Specifications

			SHR-2040P	SHR-2040
Operating System			Embedded OS	Embedded OS
Storage Capacity	Internal	Basic	160GB	160GB
		Max. Expansion	250GB x 2	250GB x 2
Video	External	USB HDD	1EA (Max. 250GB)	1EA (Max. 250GB)
		Inputs	4Ch	4Ch
	Outputs	Composite	4Ch	4Ch
		Composite Through	4Ch	4Ch
		Composite	2Ch(Main, Spot)	2Ch(Main, Spot)
	S-Video	1Ch	1Ch	1Ch
VGA		1Ch	1Ch	
Compression		MPEG4	MPEG4	
Compression Rate	Very High	81KB(352x288), 206KB(720 x 288)	6.7KB(352x240), 172KB(720 x 240)	
		61KB(352x288), 15.7KB(720 x 288)	5.0KB(352x240), 13.2KB(720 x 240)	
		48KB(352x288), 121KB(720 x 288)	3.9KB(352x240), 100KB(720 x 240)	
		29KB(352x288), 78KB(720 x 288)	2.4KB(352x240), 6.3KB(720 x 240)	
Display Speed(images/sec)		100	120	
Display Resolution		720 x 576	720 x 480	
Recording /Search	Recording Mode		Time Lapse, Event Alarm/Motion/Video Loss, Schedule(Time/Date/Camera)	Time Lapse, Event Alarm/Motion/Video Loss, Schedule(Time/Date/Camera)
	Search / PB Mode	Search	Event Search(Alarm/Motion/Video Loss), Date/Time Search, Go to First/Last Search, Backup Search	Event Search(Alarm/Motion/Video Loss), Date/Time Search, Go to First/Last Search, Backup Search
		PB	Play, Stop, Pause, FF, FB, Forward Frame Advance, Reverse Frame Advance	Play, Stop, Pause, FF, FB, Forward Frame Advance, Reverse Frame Advance
	Recording Speed/Images/sec)		100(352 x 288), 50(720 x 288), 25(720x576, 1CH mode only)	120(352 x 240), 60(720 x 240), 30(720x480, 1CH mode only)
	Recording Resolution		CIF(352 x 288), Half D1(720 x 288), D1(720x576, 1CH mode only)	CIF(352 x 240), Half D1(720 x 240), D1(720x480, 1CH mode only)
Auto Switching			0, 3, 5, 10, 20, 30sec	0, 3, 5, 10, 20, 30sec
Live Division Screen			Single, Quad, PIP, Sequence, Freeze, x2 Zoom	Single, Quad, PIP, Sequence, Freeze, x2 Zoom
Audio	Inputs		4Ch, RCA	4Ch, RCA
	Outputs		1Ch, RCA	1Ch, RCA
	Compression		ADPCM	ADPCM
	Recording		4Ch	4Ch
Alarm	Inputs		4 Alarm In	4 Alarm In
	Outputs		2 Alarm Out, 1 Alarm Reset	2 Alarm Out, 1 Alarm Reset
	Pre Alarm		Off, 5, 10, 20, 30sec	Off, 5, 10, 20, 30sec
	Post Alarm		Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min
Motion Detection			Area setting	Area setting
Network			Ethernet : 10/100Base T, Static IP, Dynamic IP(DHCP), ADSL(PPPoE)	Ethernet : 10/100Base T, Static IP, Dynamic IP(DHCP), ADSL(PPPoE)
Backup USB 20			Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)
Serial I/F(RS-485)			PTZ Device Control, System Key Board	PTZ Device Control, System Key Board
Watermark			Yes	Yes
Multiplex function			Triplex	Triplex
Power Requirements			DC 12V, 4.5A(External Adaptor)	DC 12V, 4.5A(External Adaptor)
Weight			33kg	33kg
Dimensions(WxHxD)mm			215 x 88 x 337 mm	215 x 88 x 337 mm
Packing			436 x 329 x 189 mm	436 x 329 x 189 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SHR-2042(P)

4-Channel Standalone Digital Video Recorder with built-in CD-RW



Summary

The SHR-2042 offers 4-channel MPEG4 Real time Digital Video Recorder capable of 120(100)ips recording rate(in CIF mode). The SHR-2042 also record the 4-channel synchronized audio. The DVR can record various kinds of resolution(CIF/Half D1) Each channel provides various recording rates to save HDD consumption. External interface methods are USB2.0(Front:1, Rear:1).

*.CIF : 352x240(352x288)
Half D1 : 720x240(720x288)





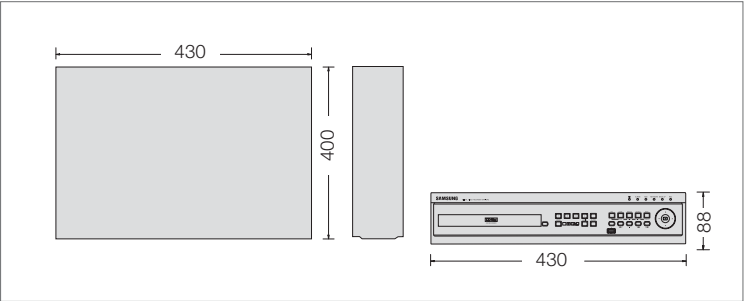
SHR-2042(P)

4-Channel Standalone Digital Video Recorder with built-in CD-RW

Features

- 4 Channel video & audio realtime recording capability.
- Built-in CD-RW for backup
- High picture quality : MPEG4
- Remote monitoring and control through network (LAN)
- Various recording features (Normal, schedule, motion, alarm)
- Recording during replay (Triplex)
- Various N/W environments support(LAN : Static/Dynamic, ADSL : Static/Dynamic (PPPoE))
- USB2.0 Interface : USB memory/USB external HDD/CD-RW, external DVD-RW backup

Dimensions (unit : mm)



Front Panel



Specifications

		SHR-2042P	SHR-2042
Operating System	Basic	Embedded OS	Embedded OS
	Internal	160GB	160GB
	Capacity	Max. Expansion 250GB x 3	250GB x 3
Video	External	USB HDD Max. 250GB, 1EA	Max. 250GB, 1EA
	Inputs	Composite 4Ch	4Ch
	Outputs	Composite Through 4Ch	4Ch
Compression	Composite	2Ch(Main, Spot)	2Ch(Main, Spot)
	S-Video	1Ch	1Ch
	VGA	1Ch	1Ch
Recording /Search	Compression Rate	MPEG4	MPEG4
	Very High	81KB(352x288), 206KB(720x288)	6.7KB(352x240), 172KB(720x240)
	High	61KB(352x288), 15.7KB(720x288)	50KB(352x240), 13.2KB(720x240)
Auto Switching	Standard	48KB(352x288), 121KB(720x288)	39KB(352x240), 100KB(720x240)
	Low	29KB(352x288), 78KB(720x288)	24KB(352x240), 6.3KB(720x240)
	Display Speed(images/sec)	100	120
Live Division Screen	Display Resolution	720x576	720x480
	Recording Mode	Time Lapse	Time Lapse
	Search / PB Mode	Search	Search
Audio	Inputs	Event Alarm/Motion/Video Loss Schedule(Time/Date/Camera)	Event Alarm/Motion/Video Loss Schedule(Time/Date/Camera)
	Outputs	Event Search(Alarm/Motion/Video Loss), Date/Time Search	Event Search(Alarm/Motion/Video Loss), Date/Time Search
	Compression	Go to First/Last Search, Backup Search	Go to First/Last Search, Backup Search
Alarm	Recording	Play Stop, Pause, FF, FB, Forward Frame Advance, Reverse Frame Advance	Play Stop, Pause, FF, FB, Forward Frame Advance, Reverse Frame Advance
	Inputs	100(352x288), 50(720x288), 25(720x576, 1CH mode only)	120(352x240), 60(720x240), 30(720x480, 1CH mode only)
	Outputs	CIF(352x288), Half D1(720x288), D1(720x576, 1CH mode only)	CIF(352x240), Half D1(720x240), D1(720x480, 1CH mode only)
Motion Detection	Pre Alarm	0, 3, 5, 10, 20, 30sec	0, 3, 5, 10, 20, 30 sec
	Post Alarm	Single, Quad, x2 Zoom, Freeze	Single, Quad, x2 Zoom, Freeze
	Area Setting	4Ch, RCA	4Ch, RCA
Network	Recording	1Ch, RCA	1Ch, RCA
	Inputs	ADPCM	ADPCM
	Outputs	4Ch	4Ch
Backup	Pre Alarm	4 Alarm, 1 Alarm Reset	4 Alarm, 1 Alarm Reset
	Post Alarm	2 Alarm Out	2 Alarm Out
	Area Setting	Off, 5, 10, 20, 30sec	Off, 5, 10, 20, 30sec
USB 2.0	Dynamic IP	Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min
	Static IP	Area Setting	Area Setting
	Dynamic IP	Ethernet : 10/100 Base T, Static IP	Ethernet : 10/100 Base T, Static IP
Serial I/F(RS-485)	Dynamic IP	Dynamic IP(DHCP), ADSL(PPPoE)	Dynamic IP(DHCP), ADSL(PPPoE)
	Static IP	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)
	Dynamic IP	PTZ Device Control, System Key Board	PTZ Device Control, System Key Board
Watermark	Dynamic IP	Yes	Yes
	Static IP	Yes	Yes
	Dynamic IP	Yes	Yes
Power Requirements	Static IP	Yes	Yes
	Dynamic IP	Yes	Yes
	Static IP	Yes	Yes
Weight	Static IP	Yes	Yes
	Dynamic IP	Yes	Yes
	Static IP	Yes	Yes
Dimensions(WxHxD)mm	Static IP	Yes	Yes
	Dynamic IP	Yes	Yes
	Static IP	Yes	Yes
Packing	Static IP	Yes	Yes
	Dynamic IP	Yes	Yes
	Static IP	Yes	Yes

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SHR-2080(P)

8-Channel Standalone Digital Video Recorder



Summary

The SHR-2080 offers 8-channel MPEG4 Digital Video Recorder capable of 120(100)ips recording rate(in CIF mode). The SHR-2080 also records the 4-channel synchronized audio. This product can record various kinds of resolution(CIF/Half D1) Each channel provides various recording rates to save HDD consumption. External interface methods are USB2.0.

*.CIF : 352x240(352x288)
Half D1 : 720x240(720x288)





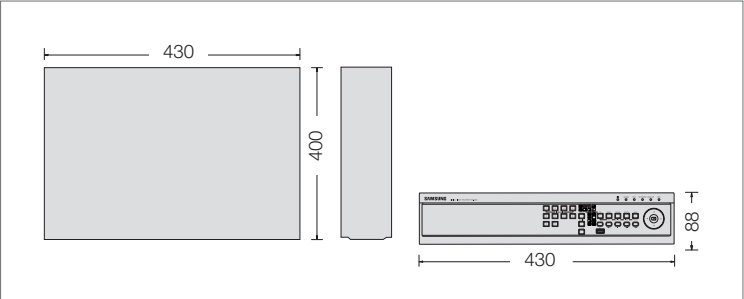
SHR-2080(P)

8-Channel Standalone Digital Video Recorder

Features

- 8 Channel video 120 (100) ips recording capability.
- High picture quality : MPEG4
- Remote monitoring and control through network (LAN)
- Various recording features (Normal, schedule, motion, alarm)
- Recording during replay (Triplex)
- Various N/W environments support(LAN : Static/Dynamic, ADSL : Static/Dynamic (PPPoE))
- USB2.0 Interface : USB memory/USB external HDD/USB external CD-RW
- IR remote control feature

Dimensions (unit : mm)



Front Panel



Specifications

		SHR-2080P	SHR-2080
Operating System		Embedded OS	Embedded OS
Storage Capacity	Internal	Basic 160GB	160GB
	Max. Expansion	250GB x 4	250GB x 4
Video Inputs	External	USB HDD Max. 250GB, 1EA	Max. 250GB, 1EA
	Composite	8Ch	8Ch
Outputs	Composite Through	8Ch	8Ch
	Composite	2Ch(Main, Spot)	2Ch(Main, Spot)
	S-Video	1Ch	1Ch
Compression	VGA	1Ch	1Ch
	MPEG4	MPEG4	MPEG4
Compression Rate	Very High	10.25KB(352x288), 176KB(720x288)	8.5KB(352x240), 146KB(720x240)
	High	7.75KB(352x288), 13.4KB(720x288)	6.4KB(352x240), 11.25KB(720x240)
	Standard	6KB(352x288), 10.25KB(720x288)	4KB(352x240), 8.5KB(720x240)
	Low	3.75KB(352x288), 6.7KB(720x288)	3KB(352x240), 5.4KB(720x240)
Display Speed/Images/sec)		200	240
	Display Resolution	720x576	720x480
Recording /Search	Recording Mode	Time Lapse, Event Alarm/Motion/Video Loss	Time Lapse, Event Alarm/Motion/Video Loss
		Schedule(Time/Date/Camera)	Schedule(Time/Date/Camera)
	Search / PB Mode	Search	Calendar Search, Event Search(Alarm/Motion/Video Loss),
		Date/Time Search, Go to First/Last Search, Backup Search	Date/Time Search, Go to First/Last Search, Backup Search
Auto Switching	PB	Play, Stop, Pause, FF, FR, Forward Frame Advance	Play, Stop, Pause, FF, FR, Reverse Frame Advance
	Recording Speed/Images/sec)	100(352x288), 50(720x288)	120(352x240), 60(720x240)
Live Division Screen	Recording Resolution	CIF(352x288), Half D1(720x288)	CIF(352x240), Half D1(720x240)
	Auto Switching	0, 3, 5, 10, 20, 30sec	0, 3, 5, 10, 20, 30sec
Audio Inputs	Live Division Screen	Single, Division(46.789), PIP, Sequence, x2 Zoom, Freeze	Single, Division(46.789), PIP, Sequence, x2 Zoom, Freeze
	Inputs	4Ch, RCA	4Ch, RCA
Outputs	Compression	1Ch, RCA	1Ch, RCA
	ADPCM	ADPCM	ADPCM
Alarm Inputs	Recording	4Ch	4Ch
	8 Alarm, 1 Alarm Reset	8 Alarm, 1 Alarm Reset	8 Alarm, 1 Alarm Reset
Outputs	4 Alarm Out	4 Alarm Out	4 Alarm Out
	Pre Alarm	0, 5, 10, 20, 30sec	0, 5, 10, 20, 30sec
Motion Detection	Post Alarm	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min
	Area Setting	Area Setting	Area Setting
Network	Ethernet : 10/100 Base T, ADSL Static IP	Ethernet : 10/100 Base T, ADSL Static IP	Ethernet : 10/100 Base T, ADSL Static IP
	ADSL Dynamic IP(PPPoE), Cable Network(Dynamic IP)	ADSL Dynamic IP(PPPoE), Cable Network(Dynamic IP)	ADSL Dynamic IP(PPPoE), Cable Network(Dynamic IP)
Backup USB 2.0	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)
	PTZ Device Control, System Key Board	PTZ Device Control, System Key Board	PTZ Device Control, System Key Board
Watermark	Yes	Yes	Yes
	Multiplex function	Triplex	Triplex
Power Requirements	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz
	Weight	69kg	69kg
Dimensions(WxHxD)mm	430 x 88 x 400 mm	430 x 88 x 400 mm	430 x 88 x 400 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model.



SHR-2082(P)

8-Channel Standalone Digital Video Recorder with built-in CD-RW



Summary

The SHR-2082 offers 8-channel MPEG4 Digital Video Recorder capable of 120(100)ips recording rate(in CIF mode). The SHR-2082 also records the 4-channel synchronized audio. This product can record various kinds of resolution(CIF/Half D1). Each channel provides various recording rates to save HDD consumption. SHR-2082 include CD-RW and external interface methods are USB2.0.

- *.CIF : 352x240(352x288)
- Half D1 : 720x240(720x288)



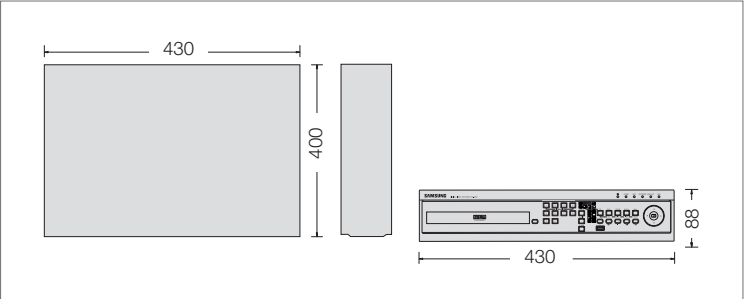
SHR-2082(P)

8-Channel Standalone Digital Video Recorder with built-in CD-RW

Features

- 8 Channel video 120 (100) ips recording capability.
- High picture quality : MPEG4
- Remote monitoring and control through network (LAN)
- Various recording features (Normal, schedule, motion, alarm)
- Recording during replay (Triplex)
- Various N/W environments support(LAN : Static/Dynamic, ADSL : Static/Dynamic (PPPoE))
- USB2.0 Interface : USB memory/USB external HDD
- Built in CD-RW • IR remote control feature

Dimensions (unit : mm)



Front Panel



Specifications

		SHR-2082P	SHR-2082
Operating System		Embedded OS	Embedded OS
Storage	Internal	Basic 160GB	160GB
Capacity	Max. Expansion	250GB x 3	250GB x 3
	CD-RW	for Backup	for Backup
	External	USB HDD Max. 250GB, 1EA	Max. 250GB, 1EA
Video	Inputs	8Ch	8Ch
	Composite	8Ch	8Ch
	Composite Through	8Ch	8Ch
	Outputs	2Ch(Main, Spot)	2Ch(Main, Spot)
	S-Video	1Ch	1Ch
	VGA	1Ch	1Ch
	Compression	MPEG4	MPEG4
	Compression Rate	Very High 10.25KB(352x288), 176KB(720x288)	85KB(352x240), 146KB(720x240)
		High 7.75KB(352x288), 134KB(720x288)	64KB(352x240), 112.5KB(720x240)
		Standard 6KB(352x288), 10.25KB(720x288)	4KB(352x240), 8.5KB(720x240)
		Low 3.75KB(352x288), 6.7KB(720x288)	3KB(352x240), 5.4KB(720x240)
	Display Speed(images/sec)	200	240
	Display Resolution	720x576	720x480
Recording /Search	Recording Mode	Time Lapse, Event Alarm/Motion/Video Loss	Time Lapse, Event Alarm/Motion/Video Loss
	Schedule(Time/Date/Camera)	Schedule(Time/Date/Camera)	Schedule(Time/Date/Camera)
	Search / PB Mode	Search	Calendar Search, Event Search(Alarm/Motion/Video Loss)
		Date/Time Search, Go to First/Last Search, Backup Search	Date/Time Search, Go to First/Last Search, Backup Search
	PB	Play, Stop, Pause, FF, FR, Forward Frame Advance	Play, Stop, Pause, FF, FR, Reverse Frame Advance
	Recording Speed(images/sec)	100(352x288), 50(720x288)	120(352x240), 60(720x240)
	Recording Resolution	CIF(352x288), Half D1(720x288)	CIF(352x240), Half D1(720x240)
Auto Switching		0, 3, 5, 10, 20, 30sec	0, 3, 5, 10, 20, 30sec
Live Division Screen		Single, Division(4, 6, 7, 8, 9), PIP, Sequence, x2 Zoom, Freeze	Single, Division(4, 6, 7, 8, 9), PIP, Sequence, x2 Zoom, Freeze
Audio	Inputs	4Ch, RCA	4Ch, RCA
	Outputs	1Ch, RCA	1Ch, RCA
	Compression	ADPCM	ADPCM
	Recording	4Ch	4Ch
Alarm	Inputs	8 Alarm, 1 Alarm Reset	8 Alarm, 1 Alarm Reset
	Outputs	4 Alarm Out	4 Alarm Out
	Pre Alarm	0, 5, 10, 20, 30sec	0, 5, 10, 20, 30sec
	Post Alarm	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min
Motion Detection		Area Setting	Area Setting
Network		Ethernet : 10/100 Base T, ADSL Static IP	Ethernet : 10/100 Base T, ADSL Static IP
		ADSL Dynamic IP(PPPoE), Cable Network(Dynamic IP)	ADSL Dynamic IP(PPPoE), Cable Network(Dynamic IP)
Backup	USB 2.0	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)
Serial I/F(RS-485)		PTZ Device Control, System Key Board	PTZ Device Control, System Key Board
Watermark		Yes	Yes
Multiplex function		Triplex	Triplex
Power Requirements		AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz
Weight		78kg	78kg
Dimensions(WxHxD)mm		430 x 88 x 400 mm	430 x 88 x 400 mm

* "P" indicates PAL model and "N" or no specific alphabet after the model name indicates NTSC model



SHR-2160(P)

16-Channel Standalone Digital Video Recorder



Summary

The SHR-2160 offers 16-channel MPEG4 Digital Video Recorder capable of 120(100)ips recording rate(in CIF mode). The SHR-2160 also records the 4-channel synchronized audio. This product can record various kinds of resolution(CIF/Half D1). Each channel provides various recording rates to save HDD consumption. External interface methods are USB2.0.

- *.CIF : 352x240(352x288)
- Half D1 : 720x240(720x288)





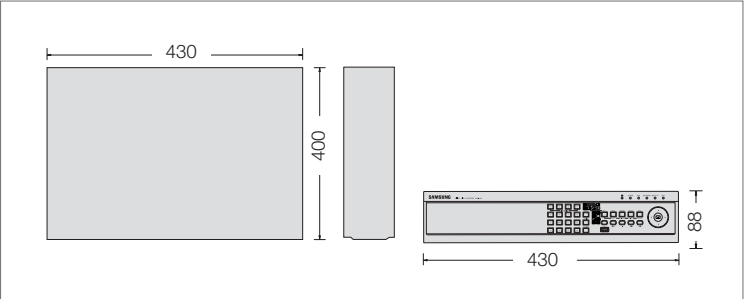
SHR-2160(P)

16-Channel Standalone Digital Video Recorder

Features

- 16 Channel Video 120 (100) ips recording capability.
- High picture quality : MPEG4
- Remote monitoring and control through network (LAN)
- Various recording features (Normal, schedule, motion, alarm)
- Recording during replay (Triplex)
- Various N/W environments support(LAN : Static/Dynamic, ADSL : Static/Dynamic (PPPoE))
- USB2.0 Interface : USB memory/USB external HDD/USB external CD-RW
- IR remote control feature

Dimensions (unit : mm)



Front Panel



Specifications

		SHR-2160P	SHR-2160
Operating System	Internal	Basic	Embedded OS
	Capacity	160GB	160GB
Storage	Max. Expansion	250GB x 4	250GB x 4
	External	Max. 250GB, 1EA	Max. 250GB, 1EA
Video	Inputs	Composite	16Ch
	Composite Through	16Ch	16Ch
Outputs	Composite	2Ch(Main, Spot)	2Ch(Main, Spot)
	S-Video	1Ch	1Ch
Compression	VGA	1Ch	1Ch
	MPEG4	MPEG4	MPEG4
Compression Rate	Very High	124KB(352x288), 21KB(720x288)	1025KB(352x240), 176KB(720x240)
	High	94KB(352x288), 16KB(720x288)	76KB(352x240), 135KB(720x240)
Standard	Low	725KB(352x288), 124KB(720x288)	6KB(352x240), 1025KB(720x240)
	Display Speed(images/sec)	400	480
Display Resolution	720x576	720x576	720x480
	Recording Mode	Time Lapse, Event Alarm/Motion/Video Loss	Time Lapse, Event Alarm/Motion/Video Loss
/Search	Schedule(Time/Date/Camera)	Schedule(Time/Date/Camera)	Schedule(Time/Date/Camera)
	Search / PB Mode	Search	Calendar Search, Event Search(Alarm/Motion/Video Loss), Date/Time Search, Go to First/Last Search, Backup Search
PB	Play, Stop, Pause, FF, FR, Forward Frame Advance	Play, Stop, Pause, FF, FR, Forward Frame Advance	Play, Stop, Pause, FF, FR, Reverse Frame Advance
	Recording Speed(images/sec)	100(352x288), 50(720x288)	120(352x240), 60(720x240)
Recording Resolution	CIF(352x288), Half D1(720x288)	CIF(352x288), Half D1(720x288)	CIF(352x240), Half D1(720x240)
	Auto Switching	0, 3, 5, 10, 20, 30sec	0, 3, 5, 10, 20, 30sec
Live Division Screen	Single, Division(4, 6, 7, 8, 9, 16), PIP, Sequence, x2 Zoom, Freeze	Single, Division(4, 6, 7, 8, 9, 16), PIP, Sequence, x2 Zoom, Freeze	Single, Division(4, 6, 7, 8, 9, 16), PIP, Sequence, x2 Zoom, Freeze
	Audio	4Ch, RCA	4Ch, RCA
Inputs	Outputs	1Ch, RCA	1Ch, RCA
	Compression	ADPCM	ADPCM
Recording	4Ch	4Ch	4Ch
	Inputs	16 Alarm, 1 Alarm Reset	16 Alarm, 1 Alarm Reset
Alarm	Outputs	4 Alarm Out	4 Alarm Out
	Pre Alarm	0, 5, 10, 20, 30sec	0, 5, 10, 20, 30sec
Post Alarm	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min
	Area Setting	Area Setting	Area Setting
Motion Detection	Ethernet : 10/100 Base T, ADSL Static IP	Ethernet : 10/100 Base T, ADSL Static IP	Ethernet : 10/100 Base T, ADSL Static IP
	ADSL Dynamic IP(PPPoE), Cable Network(Dynamic IP)	ADSL Dynamic IP(PPPoE), Cable Network(Dynamic IP)	ADSL Dynamic IP(PPPoE), Cable Network(Dynamic IP)
Backup	USB 2.0	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)	Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)
	Serial I/F(RS-485)	PTZ Device Control, System Key Board	PTZ Device Control, System Key Board
Watermark	Yes	Yes	Yes
	Multiplex function	Duplex	Duplex
Power Requirements	AC 100 ~ 240V, 50/60Hz	AC 100 ~ 240V, 50/60Hz	AC 100 ~ 240V, 50/60Hz
	Weight	69kg	69kg
Dimensions(WxHxD)mm	430 x 88 x 400 mm	430 x 88 x 400 mm	430 x 88 x 400 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SHR-2162(P)

16 Channel Standalone Digital Video Recorder with built-in CD-RW



Summary

SHR-2162(P) is a 16-channel MPEG4 real time Digital Video Recorder capable of 120(100)ips recording rate in CIF mode. It can also record the 4-channel synchronized audio and various kinds of resolution (CIF/Half D1).

- * CIF : 352x240(352x288)
- Half D1 : 720x240(720x288)

Each channel provides various recording rates to save HDD consumption.
External interface method is USB 2.0 (Front:1, Rear:1).
SHR-2162(P) includes CD-RW.





SHR-2162(P)

16 Channel Standalone Digital Video Recorder with built-in CD-RW



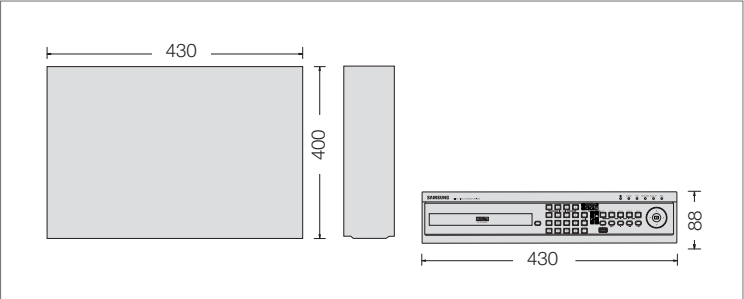
SHR-4081(P)

Real Time 8Ch Standalone Digital Video Recorder

Features

- 16 Channel video 120 (100) ips recording capability.
- High picture quality : MPEG4
- Remote monitoring and control through network (LAN)
- Various recording features (Normal, schedule, motion, alarm)
- Recording during replay (Triplex)
- Various N/W environments support (LAN : Static/Dynamic, ADSL : Static/Dynamic (PPPoE))
- USB 2.0 interface : USB memory/USB external HDD
- IR remote control feature

Dimensions (unit : mm)



Front Panel



Specifications

	SHR-2162P	SHR-2162
Operating System	Embedded OS	Embedded OS
Storage Internal Capacity	Basic 160GB Max. Expansion 250GB x 3 CD-RW for Backup	Basic 160GB Max. Expansion 250GB x 3 CD-RW for Backup
Video External Inputs	USB HDD 1EA (Max. 250 GB) Composite 16Ch Composite Through 16Ch	USB HDD 1EA (Max. 250 GB) Composite 16Ch Composite Through 16Ch
Outputs	Composite 2Ch(Main, Spot) S-Video 1Ch VGA 1Ch	Composite 2Ch(Main, Spot) S-Video 1Ch VGA 1Ch
Compression	MPEG4	MPEG4
Compression Rate	Very High 12.4KB(352x288), 21KB(720x288) High 9.4KB(352x288), 16KB(720x288) Standard 7.25KB(352x288), 12.4KB(720x288) Low 4KB(352x288), 8KB(720x288)	10.25KB(352x240), 17.6KB(720x240) 7.6KB(352x240), 13.5KB(720x240) 6KB(352x240), 10.25KB(720x240) 3.75KB(352x240), 6.5KB(720x240)
Display Speed/Images/sec	400	480
Display Resolution	720 x 576	720 x 480
Recording /Search Recording Mode	Time Lapse, Event Alarm/Motion/Video Loss, Schedule(Time/Date/Camera)	Time Lapse, Event Alarm/Motion/Video Loss, Schedule(Time/Date/Camera)
Search / PB Mode	Search Calendar Search, Event Search(Alarm/Motion/Video Loss), Data/Time Search, Go to First/Last Search, Backup Search PB Play, Stop, Pause, FF, FR, Forward Frame Advance	Search Calendar Search, Event Search(Alarm/Motion/Video Loss), Data/Time Search, Go to First/Last Search, Backup Search Play, Stop, Pause, FF, FR, Reverse Frame Advance
Recording Speed/Images/sec	100(352 x 288), 50(720 x 288)	120(352 x 240), 60(720 x 240)
Recording Resolution	CIF(352 x 288), Half D1(720 x 288) 0, 3, 5, 10, 20, 30sec	CIF(352 x 240), Half D1(720 x 240) 0, 3, 5, 10, 20, 30sec
Auto Switching	Single, Division(4, 6, 7, 8, 9, 16), PIP, Sequence, Freeze, x2 Zoom	Single, Division(4, 6, 7, 8, 9, 16), PIP, Sequence, Freeze, x2 Zoom
Live Division Screen		
Audio Inputs	4Ch, RCA	4Ch, RCA
Outputs	1Ch, RCA	1Ch, RCA
Compression	ADPCM	ADPCM
Recording	4Ch	4Ch
Alarm Inputs	16 Alarm In	16 Alarm In
Outputs	4 Alarm Out, 1 Alarm Reset	4 Alarm Out, 1 Alarm Reset
Pre Alarm	0, 5, 10, 20, 30sec	0, 5, 10, 20, 30sec
Post Alarm	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	0, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min
Motion Detection	Area setting	Area setting
Network	Ethernet : 10/100Base T, ADSL Static IP, ADSL Dynamic IP(PPPoE) Cable Network(Dynamic IP)	Ethernet : 10/100Base T, ADSL Static IP, ADSL Dynamic IP(PPPoE) Cable Network(Dynamic IP)
Backup	USB 2.0 Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)	USB 2.0 Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only)
Serial I/F(RS-485)	PTZ Device Control, System Key Board	PTZ Device Control, System Key Board
Watermark	Yes	Yes
Multiplex function	Triplex	Triplex
Power Requirements	AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz
Weight	78kg	78kg
Dimensions(WxHxD)mm	430 x 88 x 400 mm	430 x 88 x 400 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

SHR-4081(P) is a 8-Channel MPEG4 Digital Video Recorder capable of 240 (200)ips recording rate in CIF mode. It can record 8-channel synchronized audio and various kinds of resolution (CIF/HalfD1/FullD1).

- * CIF : 352x240 (352x288)
- HalfD1 : 720x240 (720x288)
- FullD1 : 720x480 (720x576)

Each channel provides various recording rates to save HDD consumption. External interface methods are USB2.0 (Front:1, Rear:1) and IEEE1394.





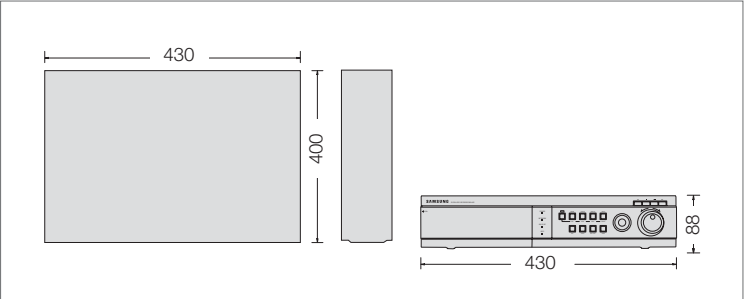
SHR-4081(P)

Real Time 8Ch Standalone Digital Video Recorder

Features

- 8 Channel video 240(200)ips recording capability
- High picture quality : MPEG4 Video, G.726 Audio compression
- Remote monitoring and control through network
- Convenient search function with JOG/Shuttle
- Various recording features (Normal, schedule, motion, alarm, video loss, panic)
- Recording during replay (Triplex mode) • Max 4 internal HDD (HDD x 4)
- Backup I/F : USB2.0 (External HDD, Memory, CD-R, CD-RW, DVD+R), IEEE1394 (External HDD)
- Various network environments support(LAN : Static/Dynamic, ADSL : Static/Dynamic(PPPoE))

Dimensions (unit : mm)



Front Panel



Specifications

SHR-4081P			SHR-4081
Operating System	Embedded OS		Embedded OS
Storage Capacity	Internal	Basic 160G	160G
		Max. Expansion 250G x 4	250G x 4
	External	USB HDD 1EA. (Max. 250GB)	1EA. (Max. 250GB)
		IEEE 1394 Max 6EA (Daisy Chain Connection), Max. HDD size : 15TB (250GB x 6)	Max 6EA (Daisy Chain Connection), Max. HDD size : 15TB (250GB x 6)
Video	Inputs	Composite 8 Ch	8 Ch
		Composite Through 8 Ch	8 Ch
	Outputs	Composite 2 Ch (Main, Spot)	2 Ch (Main, Spot)
		S-Video 1 Ch	1 Ch
		VGA 1 Ch	1 Ch
	Compression	MPEG4	MPEG4
	Compression Rate	Very High(Level7/8) 73~140KB(352x288), 98~195KB(720x288), 195~73.2(720x576)	61~140KB(352x240), 81~195KB(720x240), 16.3~73.2(720x480)
		High(Level5/6) 59~12.2KB(352x288), 8.3~17.1KB(720x288), 166~48.8(720x576)	49~12.2KB(352x240), 6.9~17.1KB(720x240), 13.8~48.8(720x480)
		Standard(Level3/4) 49~9.8KB(352x288), 6.8~14.0KB(720x288), 13.7~39.1(720x576)	41~9.8KB(352x240), 5.7~14.0KB(720x240), 11.4~39.1(720x480)
		Low(Level1/2) 3.9~6.1KB(352x288), 5.1~8.9KB(720x288), 10.7~29.3(720x576)	3.3~6.1KB(352x240), 4.3~8.9KB(720x240), 9.0~29.3(720x480)
	Display Speed(images/sec)	200	240
	Display Resolution	720 x 576	720 x 480
Recording /Search	Recording Mode	Time Lapse, Event(Alarm/Motion/Video Loss), Schedule(Time/Date/Camera), Emergency REC(Panic)	Time Lapse, Event(Alarm/Motoin/Video Loss), Schedule(Time/Date/Camera), Emergency REC(Panic)
		Calendar Search, Event Search(Alarm/Motion/Video Loss), Date/Time Search, Go to First/Last Search, Backup Search	Calendar Search, Event Search(Alarm/Motion/Video Loss), Date/Time Search, Go to First/Last Search, Backup Search
	PB	Play, Stop, Pause, FF, FB, Jog, Shuttle	Play, Stop, Pause, FF, FB, Jog, Shuttle
		Recording Speed(images/sec) 200(352x288), 100(720x288), 50(720x576)	240(352x240), 120(720x240), 60(720x480)
	Recording Resolution	CIF(352x288), Half D1(720x288), Full D1(720x576)	CIF(352x240), Half D1(720x240), Full D1(720x480)
Auto Switching	0, 3, 5, 10, 20, 30sec		0, 3, 5, 10, 20, 30sec
Live Division Screen	Single, Division(4/6,7/8/9), PIP, Sequence, Freeze, x2 Zoom		Single, Division(4/6,7/8/9), PIP, Sequence, Freeze, x2 Zoom
Audio	Inputs	8Ch, RCA	8Ch, RCA
		1Ch, RCA	1Ch, RCA
	Outputs	1Ch, RCA	1Ch, RCA
		G.726	G.726
	Recording	8Ch, RCA	8Ch, RCA
Alarm	Inputs	8 Alarm In	8 Alarm In
		4 Alarm Out, 1 Alarm Reset	4 Alarm Out, 1 Alarm Reset
	Outputs	Off, 5, 10, 20, 30Sec	Off, 5, 10, 20, 30Sec
		Off, 5, 10, 20, 30Sec, 1, 3, 5, 10, 20min	Off, 5, 10, 20, 30Sec, 1, 3, 5, 10, 20min
Motion Detection	Area setting		Area setting
Network	Ethernet : 10/100 Base T, Static IP		Ethernet : 10/100 Base T, Static IP
	Dynamic IP(DHCP), ADSL(PPPoE)		Dynamic IP(DHCP), ADSL(PPPoE)
Backup	USB2.0	Front 1, Rear 1port, External HDD, USB Memory, External CD-RW, DVD RW(+R Only), IEEE1394(Rear 1port, External HDD)	Front 1,Rear 1port,External HDD,USB Memory,External CD-RW, DVD RW(+R Only), IEEE1394(Rear 1port, External HDD)
		PTZ Device Control, System Key Board	PTZ Device Control, System Key Board
Serial I/F (RS-485)	Yes		Yes
Watermark	Triplex		Triplex
Multiplex function	AC 100 ~ 240V, 50/60Hz		AC 100 ~ 240V, 50/60Hz
Power Requirements	65Kg		65Kg
Weight	430x88x400 mm		430x88x400 mm
Dimensions(WxHxD)mm			

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SHR-4160(P)

16 Channel Standalone Digital Video Recorder



Summary

SHR-4160(P) is a 16-channel MPEG4 Digital Video Recorder capable of 360(300)ips recording rate in CIF mode. It can record 8-channel synchronized audio and various kinds of resolution (CIF/Half D1/Full D1).

- * CIF : 352x240(352x288)
- Half D1 : 720x240(720x288)
- Full D1 : 720x480(720x576)

Each channel provides various recording rates to save HDD consumption. External interface methods are USB 2.0 (Front:1, Rear:1) and IEEE1394.



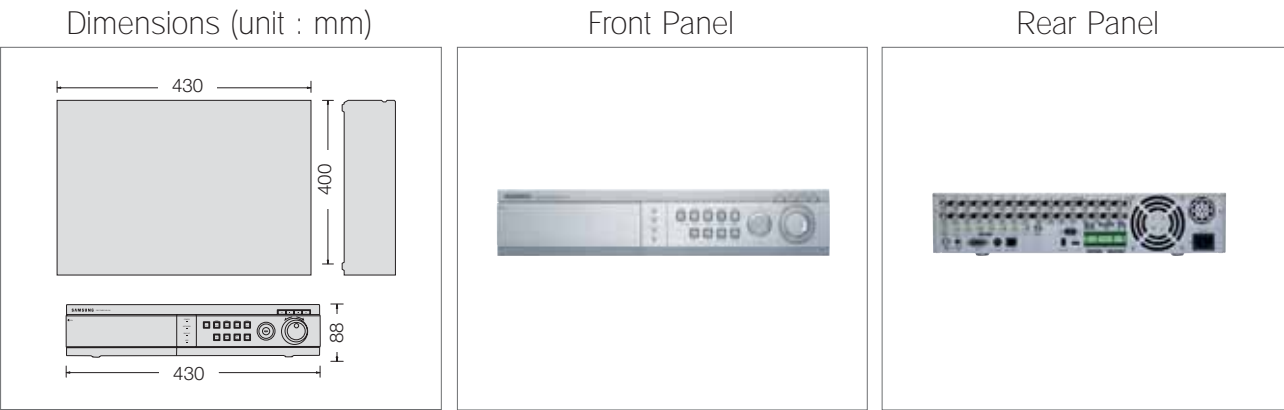


SHR-4160(P)

16 Channel Standalone Digital Video Recorder

Features

- 16 Channel video 360 (300) ips recording capability
- Remote monitoring and control through network (LAN)
- Various recording features (Normal, schedule, motion, alarm, video loss, panic)
- USB 2.0 Interface : USB memory/USB external HDD/external CD-RW, DVD-RW backup
- Various N/W environments support(LAN : Static/Dynamic, ADSL : Static/Dynamic (PPPoE))
- High picture quality : MPEG4
- Convenient search function with JOG/Shuttle
- Recording during replay (Triplex)



Specifications

		SHR-4160P	SHR-4160
Operating System		Embedded OS	
Storage	Internal	160GB	160GB
Capacity	Max. Expansion	250GB x 4	250GB x 4
	External	1EA. (Max. 250GB)	1EA. (Max. 250GB)
	IEEE 1394	Max. 6EA(Daisy Chain Connection), Max. HDD size : 15TB(250GB x 6)	Max. 6EA(Daisy Chain Connection), Max. HDD size : 15TB(250GB x 6)
Video	Inputs	16Ch	16Ch
	Composite Through	16Ch	16Ch
	Outputs	2Ch(Main, Spot)	2Ch(Main, Spot)
	S-Video	1Ch	1Ch
	VGA	1Ch	1Ch
	Compression	MPEG4	MPEG4
	Compression Rate	Very High(Level 7, 8) 73~140KB(352x288), 98~195KB(720x288), 195~73.2(720x576) High(Level 6, 5) 59~12.2KB(352x288), 8.3~17.1KB(720x288), 16.6~48.8(720x576) Standard(Level 4, 3) 4.9~9.8KB(352x288), 6.8~14.0KB(720x288), 13.7~39.1(720x576) Low(Level 2, 1) 3.9~6.1KB(352x288), 5.1~8.9KB(720x288), 10.7~29.3(720x576)	61~140KB(352x240), 81~195KB(720x240), 16.3~73.2(720x480) 4.9~12.2KB(352x240), 6.9~17.1KB(720x240), 13.8~48.8(720x480) 4.1~9.8KB(352x240), 5.7~14.0KB(720x240), 11.4~39.1(720x480) 3.3~6.1KB(352x240), 4.3~8.9KB(720x240), 9.0~29.3(720x480)
	Display Speed(images/sec)	400	480
	Display Resolution	720 x 576	720 x 480
Recording /Search	Recording Mode	Time Lapse, Event(Alarm/Motion/Video Loss), Schedule(Time/Date/Camera), Emergency REC(Panic)	Time Lapse, Event(Alarm/Motion/Video Loss), Schedule(Time/Date/Camera), Emergency REC(Panic)
	Search / PB Mode	Search Calendar Search, Event Search(Alarm/Motion/Video Loss), Date/Time Search, Go to First/Last Search, Backup Search	Search Calendar Search, Event Search(Alarm/Motion/Video Loss), Date/Time Search, Go to First/Last Search, Backup Search
	PB	Play, Stop, Pause, FF, FB, Jog, Shuttle	Play, Stop, Pause, FF, FB, Jog, Shuttle
	Recording Speed(images/sec)	300(352 x 288), 200(720 x 288), 100(720 x 576)	360(352 x 240), 240(720 x 240), 120(720 x 480)
	Recording Resolution	CIF(352x288), Half D1(720 x 288), Full D1(720 x 576)	CIF(352 x 240), Half D1(720 x 240), Full D1(720 x 480)
Auto Switching		0, 3, 5, 10, 20, 30sec	0, 3, 5, 10, 20, 30sec
Live Division Screen		Single, Division(4, 6, 7, 8, 9, 16), PIP, Sequence, Freeze, x2 Zoom	Single, Division(4, 6, 7, 8, 9, 16), PIP, Sequence, Freeze, x2 Zoom
Audio	Inputs	8Ch, RCA	8Ch, RCA
	Outputs	1Ch, RCA	1Ch, RCA
	Compression	G. 726	G. 726
	Recording	8Ch	8Ch
Alarm	Inputs	16 Alarm In	16 Alarm In
	Outputs	4 Alarm Out, 1 Alarm Reset	4 Alarm Out, 1 Alarm Reset
	Pre Alarm	Off, 5, 10, 20, 30sec	Off, 5, 10, 20, 30sec
	Post Alarm	Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min
Motion Detection		Area setting	Area setting
Network		Ethernet : 10/100 Base T, Static IP, Dynamic IP(DHCP), ADSL(PPPoE)	Ethernet : 10/100 Base T, Static IP, Dynamic IP(DHCP), ADSL(PPPoE)
Backup		USB20(Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only), IEEE 1394(Rear 1 port, External HDD)	USB20(Front 1, Rear 1 port, External HDD, USB Memory, External CD-RW, DVD-RW(+R Only), IEEE 1394(Rear 1 port, External HDD)
Serial I/F(RS-485)		PTZ Device Control, System Key Board	PTZ Device Control, System Key Board
Watermark		Yes	Yes
Multiplex function		Triplex	Triplex
Power Requirements		AC 100~240V, 50/60Hz	AC 100~240V, 50/60Hz
Weight		6.5kg	6.5kg
Dimensions(WxHxD)mm		430 x 88 x 400 mm	430 x 88 x 400 mm
Packing		559 x 517 x 204 mm	559 x 517 x 204 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model.



SPR-7116(P) / SPR-7416(P)

16 Channel PC Based Digital Video Recorder



Summary

The SPR series are high-performance 16-Channel digital video recorder capable of 120/480(100/400)ips record rate.

SPR-7416 : in case of 16 camera recording, 30(25) ips record per each camera
Higher recording rate machines(SPR-7416) are suitable for Casino, Bank, Fast-traffic security, Relation to Cashier business.

SPR-7116 : in case of 16 camera recording, 7(6) ips record per each camera Big Market, Shopping Mall, Factory facility, Apartment Guard business, an Emergency & serious patient room of Hospital. Private Commercial Building, Chain Store business, Large Parking Building Safety, Hotel(Lobby, Passage)Safety, School(Educational organization) Safety.

SPR series are extremely easy to use through intuitive graphical user interface.
Equipped with a watchdog system, the working status is constantly monitored and self-wake up if any errors is happened.

Compare to conventional analog CCTV system, SPR series offer solutions with high picture quality(no attenuation by repetitive recording),advanced search function, efficient alarm handling, remote monitoring & playback by N/W(TCP/IP).
SPR series can control speed dome camera without telemetry keyboard.
By using newly developed motion compression technology, SPR series save HDD expense.



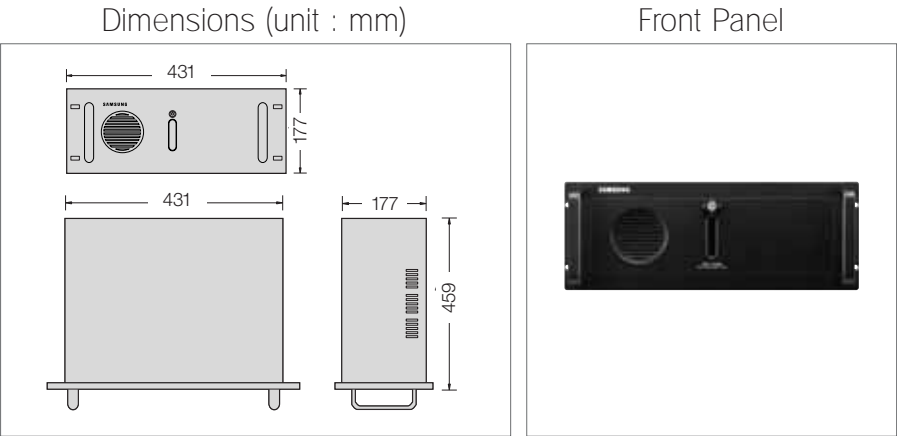


SPR-7116(P) / 7416(P)

16 Channel PC Based Digital Video Recorder

Features

- **Monitoring**
 - Resolution : 640 x 480, 640 x 240, 320 x 240, 160 x 120
 - Ave. compressed file size is the best compression rate worldwide(160 x 120 : 1KB, 320 x 240 : 2.5KB, 640 x 480 : 6KB)
 - Multi-channel display with 16 cameras (1,4,9, and 16split screen)
 - Multiple recording can be done by each 16 sensors
 - Possible to produce several outputs when an alarm operates
 - Watchdog
- **Recording and search**
 - Recording schedule by week day, saturday, sunday, and holiday.
 - Recording table is configured by data, camera, and time.
- Process multiple images
- Processes image through motion detection
- Select up to 5 areas per image and control its sensibility.
- Improved image quality (Clear and flexible)
- Zoom in/out
- Adjust brightness, contrast, smooth & sharpness, search speed, display delay
- Warning sound occurs when there is any movement
- Automatically control 16channel with setup time
- Automatically controls (On/Off) light and siren.
- Display images into 1,4,9,16 split screen or into panorama
- Images that were recorded by multiple cameras can be seen at once
- It simultaneously records and searches a channel with audio.
- When using PTZ camera, it remotely controls camera's Pan/Tilt/Zoom
- Watermark
- Emergency screen transmission
- Output from External monitor
- Check the original password for security of system
- Stores back up data using HDD, CD-RW, DVD, network



Specifications

	SPR-7116	SPR-7416
Main Spec.	CPU : Intel P-VI 2.8GHz SDRAM 512MB VGA : ATI VGA 128MB LAN : 10 / 100 MB Built-in CD-RW Drive O/S : Windows 2000 Professional	CPU : Intel P-VI 2.8GHz SDRAM 512MB VGA : ATI VGA 128MB LAN : 10 / 100 MB Built-in CD-RW Drive O/S : Windows 2000 Professional
Video Input	16CH Composite Video(NTSC/PAL)	16CH Composite Video(NTSC/PAL)
Video Output	RGB(PC) : 1CH, Composite(Normal Monitor) : 1CH	RGB(PC) : 1CH, Composite(Normal Monitor) : 1CH
Recording resolution mode	160x120, 320x240, 640x240, 640x480 (NTSC)	160x120, 320x240, 640x240, 640x480 (NTSC)
Recording speed(Frame/sec)	Max. 120/100 ips(NTSC/PAL)	Max. 480/400 ips(NTSC/PAL)
Compression Method	Modified H263	Modified H263
Compression rate	Average 2.5KB/Frame (320x240: NTSC / 352x288: PAL standard resolution)	Average 2.5KB/Frame (320x240: NTSC / 352x288: PAL standard resolution)
Watermark	Able to check the authentication of the restored image	Able to check the authentication of the restored image
Audio Recording	1CH	1CH
Display mode & Number of	1, 4, 9, 16 split screen, full screen, 16CH real time monitoring 480/400 ips (NTSC/PAL)	1, 4, 9, 16 split screen, full screen, 16CH real time monitoring 480/400 ips (NTSC/PAL)
Frame	1~10 seconds	1~10 seconds
Auto switching	Simultaneously playback each channel from 4/9/16 split screen.	Simultaneously playback each channel from 4/9/16 split screen.
Playback display mode	16CH : NO(Normal Open Type) or NC(Normal Close Type)	16CH : NO(Normal Open Type) or NC(Normal Close Type)
Sensor Input	Output through 16CH of NO/NC	Output through 16CH of NO/NC
Alarm Output	Selectable detection sensitivity and area	Selectable detection sensitivity and area
Motion Detection	M : N operation	M : N operation
Camera/Sensor	Pan/Tilt/Zoom Camera control through RS-422 connection	Pan/Tilt/Zoom Camera control through RS-422 connection
Pan/Tilt/Zoom Control	LAN : 120 Frames/sec(Max), ISDN : 3~10 Frames/sec, PTSN : 1~5	LAN : 120 Frames/sec(Max), ISDN : 3~10 Frames/sec, PTSN : 1~5
Transmission speed	Frames/sec	Frames/sec
Data backup	Auto/Manual back up through HDD, CD-RW, DVD, Network Drive	Auto/Manual back up through HDD, CD-RW, DVD, Network Drive
Power requirements	AC100~240V, 5Amax, 60Hz	AC100~240V, 5Amax, 60Hz
Weight	Approx.18Kg	Approx.18Kg
Dimensions	431(W)x177(H)x459(D)	431(W)x177(H)x459(D)

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model.



SVR-24PRT/SVR-960(P)RT

Real Time Recorder



Summary

Real-Time VCR is a new VCR product capable of capturing more image data through the increased recording density about 3 times higher than the existing Time Lapse VCR. SVR-24PRT supports three recording modes of 6H, 18H, and 30H on a standard E-180 tape, full-time video recording of 8, 24 or 40 hours can be made without changing the tape. SVR-960(P)RT supports recording modes of L6, L18, L30H, 72,120, 168, 240, 480, and 950Hr on a standard E-180 (NTSC:T-120) tape, full-time video recording of up to 40 hours can be made without changing the tape. For added convenience in control and search, Jog/Shuttle Dial has been implemented to facilitate the fast screen search, slow replay, and field-unit control.





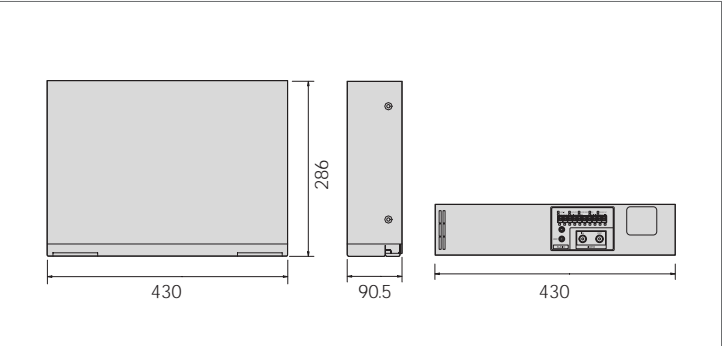
SVR-24PRT/SVR-960(P)RT

Real Time Recorder

Features

- Alarm recording function : 2Hrs of recording time mode (SVR-24PRT)L6H, L18H, L30H modes (SVR-960(P)RT)
- Built-In time/date generator
- Diamond like carbon head, 4-head
- Super clear picture
- Field/Frame recording function
- Timer recording (with 15 programs for a week (SVR-24PRT))(with 10 programs for a week (SVR-960(P)RT))
- Repeat recording and series recording function
- Power loss memory function
 - : checks the recording performance (SVR-24PRT)
- Record check function
 - : saves the last four hours from power failure to recovery (SVR-24PRT)
 - : checks the recorder to make sure the recording is normally progressing
- Back-Up time : approx. 1year

Dimensions (unit : mm)



Front/Rear Panel



Specifications

		SVR-24PRT	SVR-960(P)RT
Video	Recording Method	Rotary Head Helical Scanning System	Rotary Head Helical Scanning System
	Input/Output	Rear BNC jack(10Vp-p Unbalanced, 75 ohms)	Rear BNC Jack(10Vp-p Unbalanced, 75 ohms)
Audio	Head	26 μm DA Head(EP Head), Diamond Like Carbon	26 μm DA Head(EP Head), Diamond Like Carbon
	Recording Mode	L6, L18, L30 Modes(E-180)	L6, L18, L30 Modes(E-160: PAL / T-120: NTSC)
	Input (RCA Jack)	-8dBm	-8dBm, 600
	Output (RCA Jack)	-8dBm	-8dBm
Tape Speed		11.12mm/sec (L6Hr Mode)	11.12mm/sec (L6Hr Mode)
Recording System	REC/RB Speed Mode :	REC/RB Speed Mode :	REC/PB Speed Mode :
		: L6, L18, L30Hr, 000H (E-180)	: L6, L18, L30H, 72,120,168,240,480,960Hr, 000H (E-180:PAL, T-120:NTSC)
High Speed Rewind	Series REC, Repeat REC, 1-Shot REC	Series REC, Repeat REC, 1-Shot REC	Series REC, Repeat REC, 1-shot
	Control	Less than 100sec(E-180)	Less than 100sec(E-160 : PAL / T-120 : NTSC)
OSD	JOG/Shuttle Control	JOG/Shuttle Control	JOG/Shuttle Control
Timer	Clock Display, Date Display 3-Code	Clock Display, Date Display 3-Code	Clock Display, Date Display 3-Code
	Back-Up Time : 1 year, REC Lock	Back-Up Time : 1 year, REC Lock	Back-Up Time : 1 Year, REC Lock
Remain	FLT/LED-Digit : FLT	FLT/LED-Digit : FLT	FLT/LED-Digit : FLT
ATR	HSR(FF/REW Time ≤ 100sec)	HSR(FF/REW Time ≤ 100sec)	HSR(FF/REW Time ≤ 100sec)
Syscon	Auto ATR	Auto ATR	Auto ATR
	Basic Speed : LP	Basic Speed : LP	Basic Speed : NTSC(SLP),PAL(LP)
	Slow/Still/Reverse Play/Search,	Slow/Still/Reverse Play/Search,	Slow/Still/Reverse Play/Search,
	Z-Search(SP/LP) : x5/x7, x9/x15	Z-Search(SP/LP) : x5/x7, x9/x15	Z-Search(SP/SLP(NTSC), LP(PAL)) : x5/x7, x9/x15
	Field/Advance/Field Slow	Field/Advance/Field Slow	Field/Advance/Field Slow
	Loading Type : Full Loading	Loading Type : Full Loading	Loading Type : Full Loading
Alarm	Alarm REC/Recoll/Search/LED Display	Alarm REC/Recoll/Search/LED Display	Alarm REC/Recoll/Search/LED Display
	: High REC	: High REC	: High REC(SVR-960NRT), REC-Lock
Clock Display	Reset Button, Display Position	Reset Button, Display Position	Reset Button, Display Position
	: 4-Position, Usage Time, Count memory	: 4-Position, Usage Time, Count memory	: 4-Position, Usage Time, Count memory
Environmental	Operating Temperature : 5~40°C	Operating Temperature : 5~40°C	Operating Temperature : 5~40°C
	Operating Humidity : Less than 80%	Operating Humidity : Less than 80%	Operating Humidity : Less than 80%
Power Requirements	AC100~240V, 50Hz	AC100~240V, 50Hz	AC100~240V, 50Hz (PAL)
			AC120, 60Hz (NTSC,except for Latin America)
Power Consumption		16W	16W
Weight (kg)		Approx. 4.3Kg	Approx. 4.3Kg
Dimension(WxHxD)mm		430 x 90.5 x 286 mm	430 x 90.5 x 286 mm
Packing		500 x 386 x 198 mm	500 x 386 x 198 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model

NETWORK SECURITY

Natural image, clear definition



Comparison
Chart by Model

VIDEO SERVER

SNT-1010(P)

Network Camera

SNC-L200/L200W

VIDEO SERVER

Comparison Chart by Model

Models	CAMERAS(SNC-L200)	CAMERAS(SNC-L200W)
Spec		
Image Sensor	1/4" 320,000 Pixels CMOS Pixels	1/4" 320,000 Pixels CMOS Pixels
Pan/Tilt Range	Pan (50 °)/Tilt (40 ° Down~ 10 ° Up)	Pan (50 °)/Tilt (40 ° Down~ 10 ° Up)
Pan/Tilt Speed	50/Sec	50/Sec
Network Connection	10/100Base-T	10/100Base-T
Network Service	Static IP, Cable Modem, ADSL, IP Router	Static IP, Cable Modem, ADSL, IP Router
Image Compression	JPEG	JPEG
Video Streaming Format	M-JPEG	M-JPEG

Models	VIDEO SERVER(SNT-1010)
Spec	
Video Input	Composite 1 Channel
Video Output	1 BNC (Loop Through Out)
Audio	Mono 1 chanel Bidirectional audio
Network Connection	10/100Base-T
Network Service	Cable Modem, VDSL, ADSL with IP Router, Static IP,DHCP
Video Streaming Format	MPEG-4,M-JPEG
Video resolution(NTSC)	D1:720x480, VGA:640x480, CIF:352x240, QCIF:176x112
Power Requirement(V)	DC 8.4V (External Adaptor)
Power Consumption(W)	5W
Dimensions (WxDxH)	W160 X D136 X H33 mm



SNT-1010
Dual Codec(MPEG-4(ASP), MJPEG), Dual Stream, Video motion detection and pre/post-alarm buffer, E-mail/FTP Transfer, Replay Viewing



Summary
The SNT-1010 is a high-performace, dual codec, dual stream, single input video encoding unit. It compresses the single camera input into two MPEG or MJPEG video and G.711 audio stream data simultaneously. In addition, it transmits the stream data out through network on realtime basis in order to remotly monitor and record it repectively.

Pan/tilt/zoom control is done over the serial port, enabling PTZ and dome camera handling over the network.



SNT-1010

Dual Codec(MPEG-4(ASP), MJPEG), Dual Stream, Video motion detection and pre/post-alarm buffer, E-mail/FTP Transfer, Replay Viewing



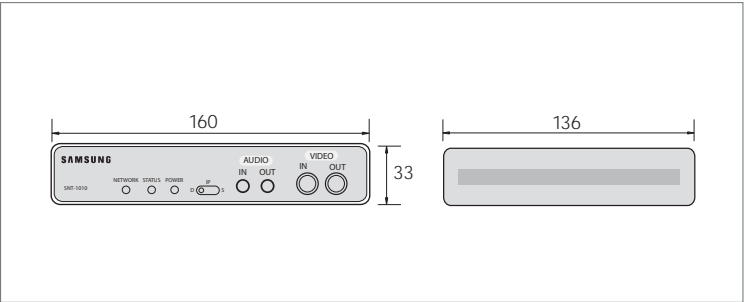
SNC-L200 / L200W

Wired Network Camera/Wireless (Wi-Fi) Network Camera

Features

- High quality(D1) at 30/25 Images per second
- Simultaneous Motion JPEG and MPEG-4 streams
- Video motion detection and pre/post-alarm buffer
- Video Signal Noise Reduction
- Easy Network Setup such as UPnP function, DDNS
- Support for PTZ and dome cameras
- Bidirectional Audio Support

Dimensions (unit : mm)



Front Panel



Specifications

	Sub-items		Description
Environment	Server	OS	Embedded Linux
	Client	OS	Windows 2000 / Windows XP
Hardware	Flash memory		16M byte
	SDRAM		64M byte
Network	Ethernet		10/100BASE-T
	Network Protocol	Network Protocol	TCP, UDP, RTP, HTTP, DHCP
		Streaming	TCP, UDP(Unicast, Multicast)
		UPnP	Supporting Auto Network Configuration
Video	IN	DDNS	Supporting Samsung DDNS and Public DDNS servers
	OUT		Composite 1 Channel
Audio	connector		1 BNC (Loop Through Out) - Auto Termination
	Input/Output		3.5 mm jacks
Compression	Bidirectional audio		Mono 1 channel / Mono 1 channel
			Full duplex
Video resolution	Video		MPEG-4, M-JPEG
	Audio		G.711, 64kbps 8kHz sampling
Frame Rate	NTSC	D1	720x480
		VGA	640x480
		CIF	352x240
		QCIF	176x112
	PAL	D1	720x576
		VGA	640x576
		CIF	352x288
		QCIF	176x144
Video Quality	NTSC		30, 15, 7.5, 3, 1 FPS
	PAL		25, 12.5, 6.25, 3, 1 FPS
Motion Detection	Quality		Very High, High, Normal, Low, Very Low
Connection Users	Sensitivity		High, Medium, Low
Alarm I/O			Max. 20 Users
Alarm Event			Input : 4, Output : 2
			PRE / POST Recording : Max 30 sec
	Alarm Input		Image transfer : FTP, E-mail / Notification : notify to viewer and file server / Alarm Out
	Video Loss		Image transfer : FTP, E-mail / Notification : notify to viewer and file server / Alarm Out
	Motion Detection		Image transfer : FTP, E-mail / Notification : notify to viewer and file server / Alarm Out
IP installer	Schedule		Image transfer : FTP, E-mail
			IP installation function (XP, Windows 2000 support)
Replay Viewing		Ip address installation	MJPEG frame buffering for replay Buffering 1~5 Image per second
Software Upgrade		Firmware upgrade	Firmware upgrade by web browser
Access Level		Login access Level	Guest, Administrator, Operator, User
IP Notification		Dynamic IP Notify	SMTP(E-mail), FTP
Time setting		Time setting	NTP, Time Zone, Summer Time setting
PTZ control		Pan/Tilt/Zoom control	Auto pan, preset, scan function support
1CH Recording Playback		Recording/Playback	Max 10min record can be recorded when PC Hard Disk available space is bigger than 20% of total space
Viewer Customizing			Logo customizing, Banner customizing
SDK	HTTP API	Application program interface	Provides functionality to set/retrieve internal parameter values.
	Windows API	Windows API	ActiveX components for viewing streams from video camera and controlling
Environmental Conditions	Operating Temperature(°C)		0°C ~ +40°C
	Humidity(%)		20% ~ 85% RH
Power	Power Requirement(V)		DC8.4V (External Adaptor)
	Power Consumption(W)		5W
Physical Specification	Dimensions (WxDxH)		W160 X D136 X H33 mm
	Weight		0.42KG

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



Summary

SNC-L200(wired) and SNC-L200W(wireless) are the network cameras which enable surveillance from remote PC under various networking environments such as ADSL, cable and modem. Its compact design fits to any interior environment. The images shot by these network cameras can be monitored and even Pan/Tilt control can be realized at remote site through a Multi-viewer designed by Samsung. The camera automatically saves pre/post-images to users PC when it detects motion and issues an alarm. UPnP function makes it easy for users to set up IP and connect to network under various networking environments. An easy to install SNC-L200W model adopts IEEE 802.11b for operation under wireless LAN environment.





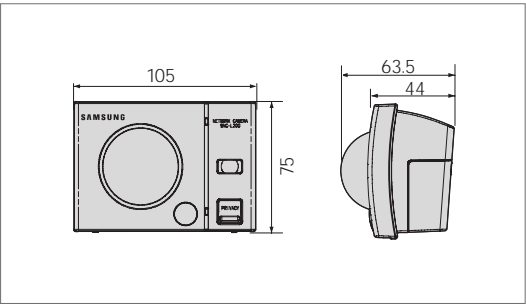
SNC-L200 / L200W

Wired Network Camera/Wireless (Wi-Fi) Network Camera

Features

- 1/4" 320,000 pixels CMOS
- Remote Pan/Tilt control
- Flash LED for night vision
- Pre Alarm / Auto Alarm
- UPnP supportable
- Supports various protocol (TCP/IP, UDP, ARP, HTTP, SMTP, FTP, Telnet, DHCP, PPPoE)
- Supports WAP 2.0 (USA)
- IEEE 802.11b (SNC-L200W)
- Remote Recording with Free Multi-Viewer Management Software; Up to 16 CH Recording, 1CH Playback
- Preset function (Max=8)
- Power Pan ($\pm 50^{\circ}$) /Tilt ($+10^{\circ} \sim -40^{\circ}$)
- PIR Sensor
- Privacy function

Dimensions (unit : mm)



Front Panel



Specifications

	SNC-L200	SNC-L200W
Camera	Image Sensor	1/4" 320,000 Pixels CMOS Pixels
	White Balance	Auto
	Focus	Fixed 1m ~ Infinity
	Min. Scene Illumination	1 ~ 10,000 Lux
	Pan/Tilt Range	Pan(50° Left ~ 50° Right)/Tilt(40° Down~ 10° Up)
	Pan/Tilt Speed	50° /Sec
	Number of Preset	8 ea
	Flash LED Lens Degree	45°
	Flash LED-Lux/Range	8 Lux/3 m
	PIR Sensor-Left/Right	40°
	PIR Sensor-Up/Down	85°
	PIR Sensor-Range	3 m
Network & Server	Network Connection	10/100Base-T
	Network Service	Fixed IP, Cable Modem, ADSL, DHCP, IP Router
	Network Protocol	TCP/IP, UDP, ARP, HTTP, SMTP, FTP, Telnet, DHCP, PPPoE
	Image Compression	JPEG
	Video Streaming Format	M-JPEG
	Resolution	640x480, 320x240, 160x120
	Frame Rate-640x480	15 fps
	Frame Rate-320x240	30 fps
	File Size-640x480	12KB(Low), 17KB(Normal), 25KB(High)
	File Size-320x240	4KB(Low), 7KB(Normal), 9KB(High)
	File Size-160x120	2KB(Low), 3KB(Normal), 4KB(High)
	Authentication	ID/Password Authentication
	IP Router(AP)-LinkSys	WRT54G
	IP Router(AP)-Netgear	WGR614v4
	IP Router(AP)-D-Link	DI-624+
	Simultaneous Viewer	10 Persons
	Pre-Alarm	yes
	Camera Recording	yes (save on users PC via network)
	Frame Rate Control	10/50/100/150/300 Fps
	Free DDNS Compatible	yes (A free Service that require upgrade)
	WAP-O/S	Embedded Linux
	WAP-WAP Version	WAP2.0
	WAP-Browser	open browser
	WAP-display size	160x120, 320x240
	WAP-Video Codec	M-JPEG
	WAP-Service area	USA
	WAP-URL support	yes
	Wireless-Protocol	IEEE 802.11b
	Wireless-Frequency	2.4 Ghz
	Wireless-Range	100 ~ 150 feet
	Wireless-Throughput	11 Mbps
Power Requirement	84V DC, 1A	84V DC, 1A
Power Consumption	5W	5W
Weight-Net	400g	400g
Dimension(WxHxD)-Net	105 x 75 x 48 mm	105 x 75 x 63.5 mm

* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model



SCQ-041AP

4 Channel Digital Color Quad Switcher

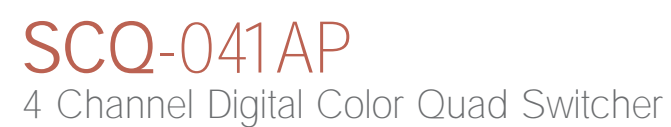


Summary

SCQ-041AP is a digital 4-screen display device that enables the composite display of up to 4 Video signals from external devices such as the surveillance camera on a single monitor screen. It enables the initial encryption of up to 8 alphanumeric characters for each channel on a connected monitor screen and allows the wider range of application design by offering the time display, external alarm signal, and remote controlling.

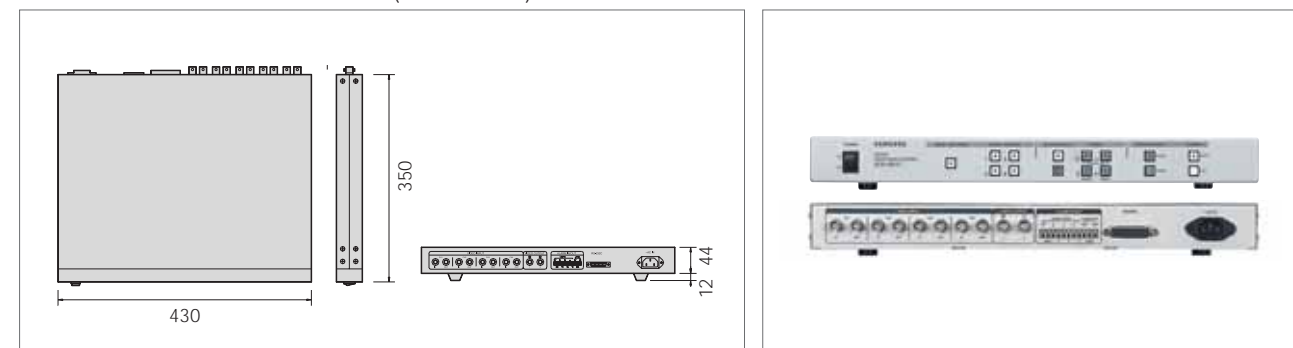
- SCQ-041AP is suitable for
- Police station
 - Corporate security
 - Factory facility
 - Apartment guard business
 - Department store
 - School (Educational organization) safety





- 4 Channel camera input
- 240 horizontal resolution (quad display only)
- Adjustable date/time display
- Single display mode for each channel
- Automatic channel switch (in auto switcher mode)
- Channel loss detect and alert (buzzer sound and display on the screen)
- Freeze function
- Simultaneous record of quad screen display
- RS-232C remote control

Front/Rear Panel



Specifications

SCQ-041AP		
Video	Input	Camera 4 Input : 10Vp-p, 75Ω Auto Termination, Loop through output, BNC Type, CVBS
Video Output	Output 1	Quad screen only display, 10Vp-p, 75Ω CVBS
	Output 2	User can choose among quad screen display, single screen display and automatic switcher screen display options.
Horizontal Resolution		240TV Lines(Quad Display Mode)
Remote Control		Available by using an RS-232C cable.
Alarm/Loss list		Saving Max. 8
Alarm Input		4 Ch Input
Alarm Output		Relay Maked Active, TTL "LOW" Level *Contact rating(resistive) : 2A, 30V DC or0.5A, 125V AC
Memory backup		More than 1 year
Reset		Open Collector "L" Level, Pulse Width + more than 150ms
Alarm Hold Time		5,10, 20, 30, 60, 90, 120, 180 seconds, M (Manual is activated only the moment Alarm inputs)
Auto Switcher		0 to 30 seconds User must set time in the menu
Character Indication (OSD)	Title	Each channel indicates maximum 8 characters (Alpha-Numeric, Special Characters)
	Date & Time	Year/Month/Day/, Hour:Minute:Second
	Alarm Indication	"A"
	Channel Loss	"LOSS"
Video Loss Detection		4 Channels
Quantization Bit number		8Bit(256 Steps)
Sampling of Frequency		28.63636MHz
Environmental Conditions		Operating Temperature : 0°C ~ 40°C Operating Humidity : 20 ~ 85% RH
Power Requirement		AC100-240V, 50Hz
Power Consumption		Less than 10W
Weight		Approx. 38kg(excluding packing materials)
Outside Dimension (W x H x D)		430 x 44 x 350 mm(16.9 x 1.7 x 13.7inch)
Packing		500 x 436 x 135 mm



MEMO